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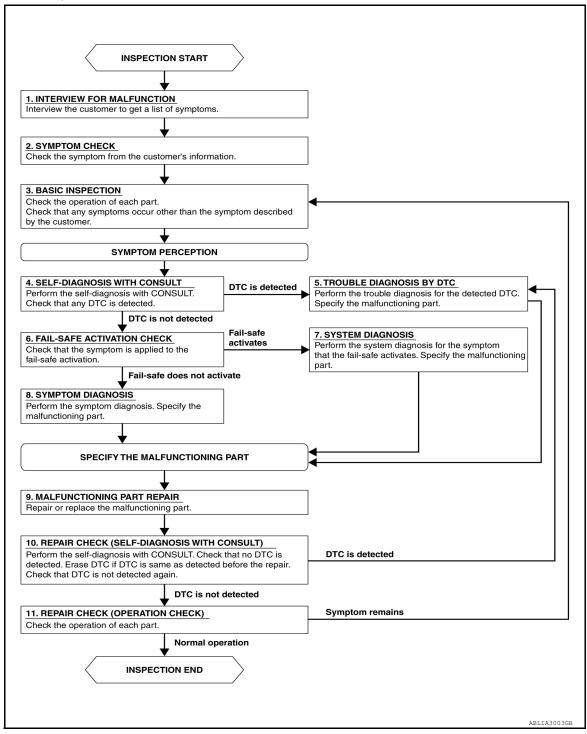
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



DIAGNOSIS AND REPAIR WORKFLOW

DETAILED FLOW
1.INTERVIEW FOR MALFUNCTION
Find out what the customer's concerns are.
>> GO TO 2
2.SYMPTOM CHECK
Verify the symptom from the customer's information.
>> GO TO 3
3.BASIC INSPECTION
Check the operation of each part. Check that any concerns occur other than those mentioned in the customer interview.
>> GO TO 4
4.self-diagnosis with consult
Perform the self diagnosis with CONSULT. Check that any DTC is detected.
<u>Is any DTC detected?</u> YES >> GO TO 5
NO >> GO TO 6
5.TROUBLE DIAGNOSIS BY DTC
Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part.
>> GO TO 9
6. FAIL-SAFE ACTIVATION CHECK
Determine if the customer's concern is related to fail-safe activation.
Does the fail-safe activate?
YES >> GO TO 7 NO >> GO TO 8
7.system diagnosis
Perform the system diagnosis for the system in which the fail-safe activates. Specify the malfunctioning part.
34.
>> CO TO 0
>> GO TO 9 8.SYMPTOM DIAGNOSIS
Perform the symptom diagnosis. Specify the malfunctioning part.
r chom the symptom diagnosis. Specify the manufactioning part.
>> GO TO 9
9.malfunction part repair
Repair or replace the malfunctioning part.
>> GO TO 10 10.REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT)

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Is any DTC detected?

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

YES >> GO TO 5 NO >> GO TO 11

11. REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

Does it operate normally?

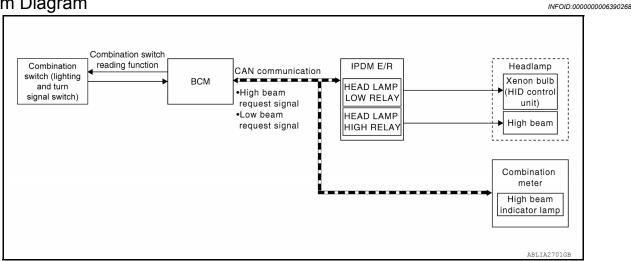
YES >> Inspection End.

NO >> GO TO 3

SYSTEM DESCRIPTION

HEADLAMP (XENON TYPE)

System Diagram



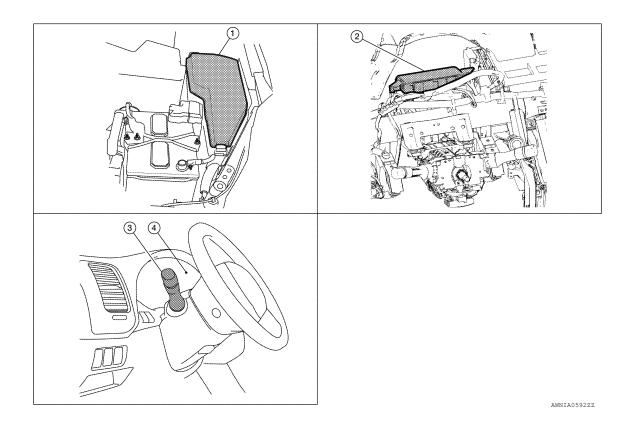
System Description

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Control of the headlamp system is dependent upon the position of the combination switch (lighting and turn signal switch). When the combination switch (lighting and turn signal switch) is placed in the 2nd position, the BCM (body control module) receives input requesting the headlamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) across the CAN communication lines. The CPU (central processing unit) of the IPDM E/R controls the headlamp high and headlamp low relay coils. When energized, these relays direct power to the respective headlamps, which then illuminate.

Component Parts Location

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HEADLAMP (XENON TYPE)

< SYSTEM DESCRIPTION >

- 1. IPDM E/R E17, E18, E200
- instrument panel removed)
 - BCM M16, M17, M18, M19 (view with 3. Combination switch (lighting and turn signal switch) M28
- Combination meter M24

Component Description

INFOID:0000000006390271

XENON HEADLAMP

A Xenon type headlamp is adapted to the low beam headlamps. Xenon bulbs do not use a filament. Instead, they produce light when a high voltage current is passed between two tungsten electrodes through a mixture of xenon (an inert gas) and certain other metal halides. In addition to added lighting power, electronic control of the power supply gives the headlamps stable quality and tone color.

Following are some of the many advantages of the xenon type headlamp.

- The light produced by the headlamps is a white color comparable to sunlight that is easy on the eyes.
- Light output is nearly double that of halogen headlamps, affording increased area of illumination.
- The light features a high relative spectral distribution at wavelengths to which the human eye is most sensitive. This means that even in the rain, more light is reflected back from the road surface toward the vehicle, for added visibility.
- Power consumption is approximately 25 percent less than halogen headlamps, reducing battery load.

HIGH BEAM OPERATION/FLASH-TO-PASS OPERATION

With the combination switch (lighting and turn signal switch) in the 2ND position and placed in HIGH position, the BCM receives input requesting the headlamp high beams to illuminate. The flash to pass feature can be used any time and also sends a signal to the BCM. This input is communicated to the IPDM E/R across the CAN communication lines. The CPU of the combination meter controls the ON/OFF status off the HIGH BEAM indicator. The CPU of the IPDM E/R controls the headlamp high relay coil which directs power to the high beam headlamps.

EXTERIOR LAMP BATTERY SAVER CONTROL

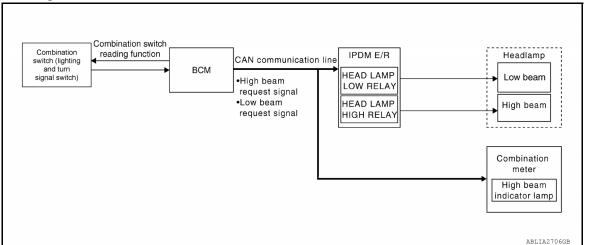
With the combination switch (lighting and turn signal switch) in the 2nd position and the ignition switch is turned from ON or ACC to OFF, the battery saver feature is activated.

Under this condition, the headlamps remain illuminated for 5 minutes unless the combination switch (lighting and turn signal switch) position is changed. If the combination switch (lighting and turn signal switch) position is changed, then the headlamps are turned off.

This setting can be changed by CONSULT. Refer to EXL-23, "HEADLAMP: CONSULT Function (BCM -HEAD LAMP)".

HEADLAMP (HALOGEN TYPE)

System Diagram



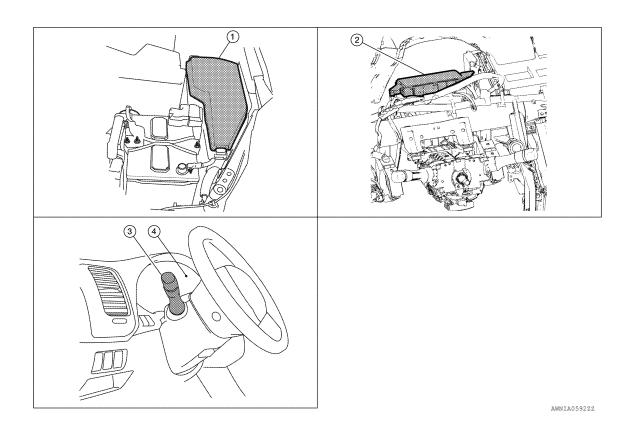
System Description

Control of the headlamp system operation is dependent upon the position of the combination switch (lighting and turn signal switch). When the combination switch (lighting and turn signal switch) is placed in the 2nd position, the BCM (body control module) receives input requesting the headlamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) across the CAN communication lines. The CPU (central processing unit) of the IPDM E/R controls the headlamp high and headlamp low relay coils. When energized, these relays direct power to the respective headlamps, which then illuminate.

Component Parts Location

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HEADLAMP (HALOGEN TYPE)

< SYSTEM DESCRIPTION >

- 1. IPDM E/R E17, E18, E200
- 2. BCM M16, M17, M18, M19 (view with 3. instrument panel removed)
 - Combination switch (lighting and turn signal switch) M28

4. Combination meter M24

Component Description

INFOID:0000000006390275

LOW BEAM OPERATION

When the combination switch (lighting and turn signal switch) is in 2ND position, the BCM receives input requesting the headlamps to illuminate. This input is communicated to the IPDM E/R across the CAN communication lines. The CPU of the IPDM E/R controls the headlamp low relay coil which supplies power to the low beam headlamps.

HIGH BEAM OPERATION/FLASH-TO-PASS OPERATION

With the combination switch (lighting and turn signal switch) in the 2ND position and placed in HIGH position, the BCM receives input requesting the headlamp high beams to illuminate. The flash to pass feature can be used any time and also sends a signal to the BCM. This input is communicated to the IPDM E/R across the CAN communication lines. The CPU of the combination meter controls the ON/OFF status off the HIGH BEAM indicator. The CPU of the IPDM E/R controls the headlamp high relay coil which supplies power to the high beam headlamps.

The combination meter receives a high beam request signal (ON) through the CAN communication lines and turns the high beam indicator lamp ON.

EXTERIOR LAMP BATTERY SAVER CONTROL

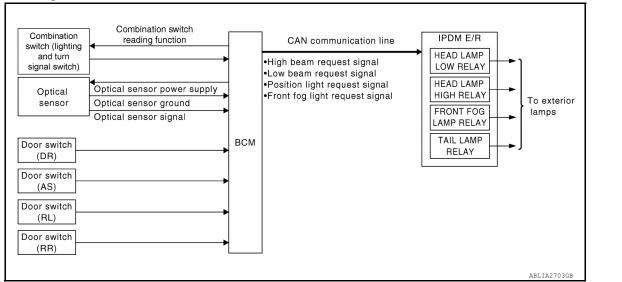
With the combination switch (lighting and turn signal switch) in the 2ND position and the ignition switch is turned from ON or ACC to OFF, the battery saver feature is activated.

Under this condition, the headlamps remain illuminated for 5 minutes unless the combination switch (lighting and turn signal switch) position is changed. If the combination switch (lighting and turn signal switch) position is changed, then the headlamps are turned off.

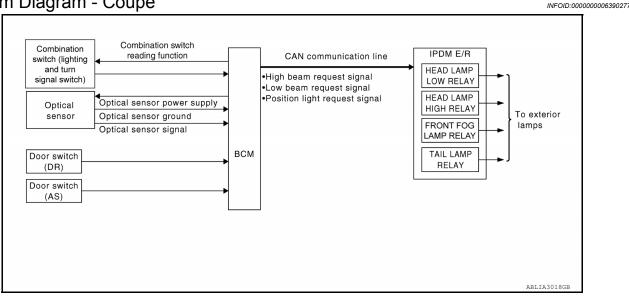
This setting can be changed by CONSULT. Refer to <u>EXL-23</u>, "<u>HEADLAMP</u>: <u>CONSULT Function (BCM - HEADLAMP</u>)".

AUTO LIGHT SYSTEM

System Diagram - Sedan



System Diagram - Coupe



System Description

- BCM (Body Control Module) controls auto light operation according to signals from optical sensor, combination switch (lighting and turn signal switch) and ignition switch.
- IPDM E/R (Intelligent Power Distribution Module Engine Room) operates parking, license plate, tail, front fog (if equipped) lamps and headlamps according to CAN communication signals from BCM.
- Optical sensor detects ambient brightness and converts light (lux) to voltage, then sends the optical sensor signal to BCM.

OUTLINE

Revision: June 2012

The auto light control system has an optical sensor that detects outside brightness.

When the combination switch (lighting and turn signal switch) is in AUTO position, it automatically turns ON/ OFF the parking, license plate, tail, front fog lamps (if equipped) and headlamps in accordance with the ambient light. Sensitivity can be adjusted in four steps. For the details of the setting, Refer to EXL-23, "HEADLAMP : CONSULT Function (BCM - HEAD LAMP)".

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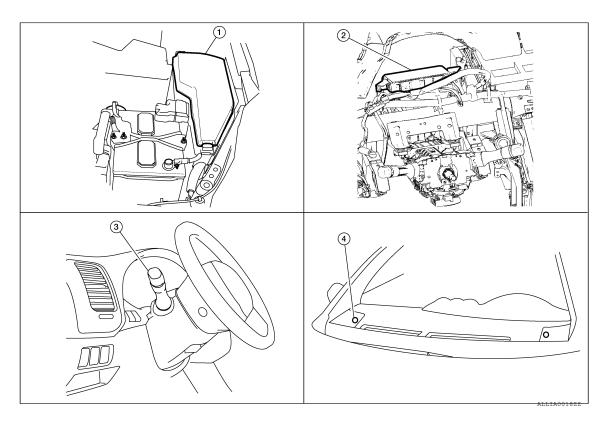
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EXL-11

Component Parts Location

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- 1. IPDM E/R E17, E18, E200
- 2. BCM M16, M17, M18, M19, M21 (view 3. with instrument panel removed)
- Combination switch (lighting and turn signal switch) M28

Optical sensor M66

Component Description

INFOID:0000000006390280

AUTO LIGHT OPERATION

Applicable lamps

- Low beam headlamp
- · Parking, license plate and tail lamps
- High beam headlamp (with the combination switch (lighting and turn signal switch) in HIGH BEAM position)
- Front fog lamp (with the combination switch (lighting and turn signal switch) in front fog lamp ON position) (if equipped)

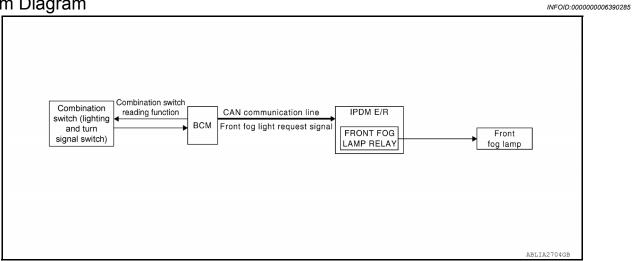
When the combination switch (lighting and turn signal switch) is in AUTO position with the ignition switch in ON position, BCM detects the AUTO LIGHT (ON) by BCM combination switch (lighting and turn signal switch) reading function. BCM turns automatically ON/OFF the applicable lamps according to ambient brightness.

NOTE:

Timing for when lamps turn ON/OFF can be changed by the function setting of CONSULT. Refer to <u>EXL-23</u>, <u>"HEADLAMP : CONSULT Function (BCM - HEAD LAMP)"</u>.

FRONT FOG LAMP

System Diagram



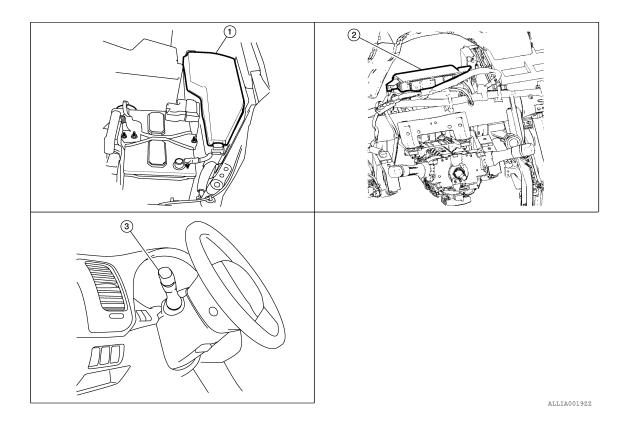
System Description

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- BCM (Body Control Module) controls front fog lamp operation.
- IPDM E/R (Intelligent Power Distribution Module Engine Room) operates front fog lamp according to CAN communication signals from BCM.
- Combination meter operates front fog lamp indicator according to inputs via the CAN communication lines.

Component Parts Location

INFOID:0000000006390287



IPDM E/R E17, E18, E200

- BCM M16, M17, M18, M19 (view with 3. instrument panel removed)
- Combination switch (lighting and turn signal switch) M28

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FRONT FOG LAMP

< SYSTEM DESCRIPTION >

Component Description

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FRONT FOG LAMP OPERATION

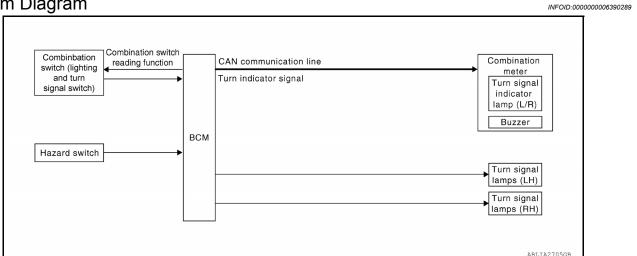
When the combination switch (lighting and turn signal switch) is in front fog lamp ON position and also in 1ST or 2ND position or AUTO position (headlamp is ON), the BCM detects FR FOG ON and the HEAD LAMP1, 2 ON or the AUTO LIGHT ON. The BCM sends a front fog lamp request ON signal through the CAN communication lines to the IPDM E/R. The IPDM E/R then turns ON the front fog lamp relay sending power to the front fog lamps.

The combination meter also receives a front fog lamp request ON signal through the CAN communication lines at which time it turns the front fog indicator ON.

TURN SIGNAL AND HAZARD WARNING LAMPS

TURN SIGNAL AND HAZARD WARNING LAMPS

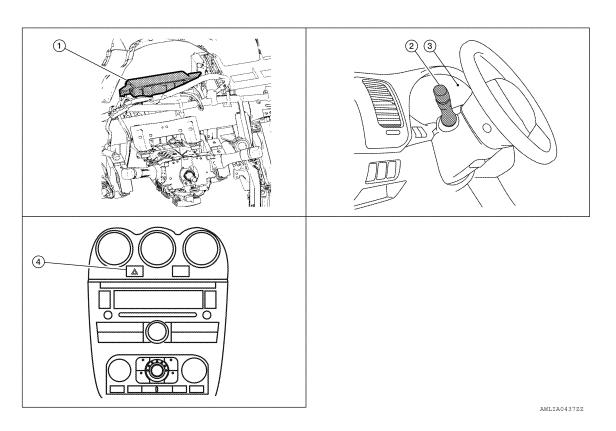
System Diagram



System Description

- BCM (Body Control Module) controls turn signal lamp (RH and LH) and hazard warning lamp operation.
- · Combination meter operates turn (RH and LH) indicator according to CAN communication signals from BCM.

Component Parts Location



- BCM M16, M17, M18, M19 (view with 2. instrument panel removed)
 - signal switch) M28
- Combination switch (lighting and turn 3. Combination meter M24

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Hazard switch M54

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TURN SIGNAL AND HAZARD WARNING LAMPS

< SYSTEM DESCRIPTION >

Component Description

INFOID:0000000006390292

TURN SIGNAL OPERATION

When the combination switch (lighting and turn signal switch) is in LH or RH position with the ignition switch in ON position, the BCM detects the TURN RH or TURN LH ON request. The BCM outputs the flasher output signal to the respective turn signal lamp. The BCM sends a turn indicator signal ON request through the CAN communication lines to the combination meter. The combination meter then activates the appropriate turn signal indicator and audible buzzer.

HAZARD LAMP OPERATION

When the hazard switch is in ON position, the BCM detects the hazard switch signal ON. The BCM outputs the flasher output signal (right and left). The BCM sends a hazard indicator signal ON request through the CAN communication lines to the combination meter. The combination meter then activates the hazard indicator and audible buzzer.

REMOTE KEYLESS ENTRY OPERATION

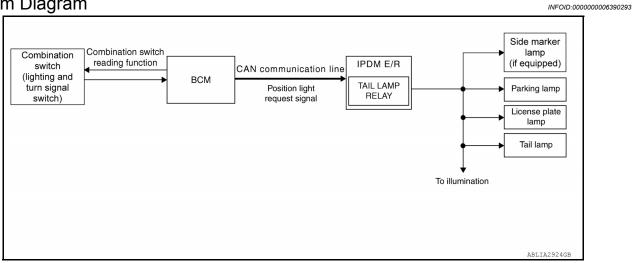
The remote keyless entry receiver transmits Intelligent Key signal to BCM, then BCM controls hazard lamps. Refer to <u>SEC-228</u>, "System Description".

PARKING, LICENSE PLATE AND TAIL LAMPS

< SYSTEM DESCRIPTION >

PARKING, LICENSE PLATE AND TAIL LAMPS

System Diagram



System Description

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- BCM (Body Control Module) controls parking, side marker, license plate and tail lamps operation.
- IPDM E/R (Intelligent Power Distribution Module Engine Room) operates parking, side marker, license plate and tail lamps according to CAN communication signals from BCM.

Component Parts Location

IPDM E/R E17, E18, E201

BCM M16, M17, M18, M19 (view with 3. instrument panel removed)

Combination switch (lighting and turn

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signal switch) M28

EXL-17 Revision: June 2012 2011 Altima GCC

PARKING, LICENSE PLATE AND TAIL LAMPS

< SYSTEM DESCRIPTION >

Component Description

INFOID:0000000006390296

PARKING, LICENSE PLATE AND TAIL LAMPS OPERATION

When the combination switch (lighting and turn signal switch) is in 1ST position, BCM detects the combination switch (lighting and turn signal switch) ON. The BCM sends a parking light ON request through the CAN communication lines to the IPDM E/R. The IPDM E/R then activates the tail lamp relay which sends power to the parking and instrument illumination circuits.

EXTERIOR LAMP BATTERY SAVER CONTROL

With the combination switch (lighting and turn signal switch) in the 2ND position and the ignition switch is turned from ON or ACC to OFF, the battery saver feature is activated.

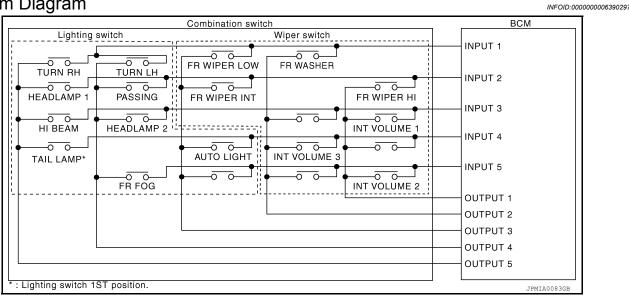
Under this condition, the headlamps remain illuminated for 5 minutes unless the combination switch (lighting and turn signal switch) position is changed. If the combination switch (lighting and turn signal switch) position is changed, then the headlamps are turned off.

This setting can be changed by CONSULT. Refer to <u>EXL-23</u>, "<u>HEADLAMP</u>: <u>CONSULT Function (BCM - HEADLAMP)</u>".

< SYSTEM DESCRIPTION >

COMBINATION SWITCH READING SYSTEM

System Diagram



System Description

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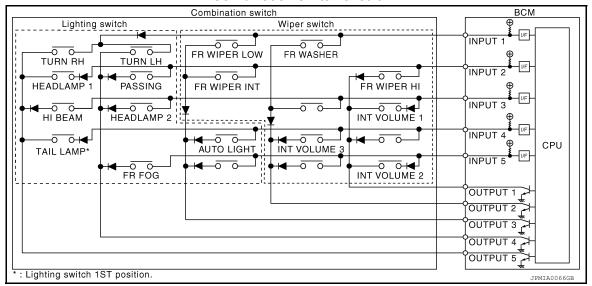
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OUTLINE

- BCM reads the status of the combination switch (light, turn signal, wiper and washer) and recognizes the status of each switch.
- BCM is a combination of 5 output terminals (OUTPUT 1 5) and 5 input terminals (INPUT 1 5). It reads a
 maximum of 20 switch status.

COMBINATION SWITCH MATRIX

Combination switch circuit



Combination switch INPUT-OUTPUT system list

System	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4	OUTPUT 5
INPUT 1	_	FR WASHER	FR WIPER LOW	TURN LH	TURN RH
INPUT 2	FR WIPER HI	_	FR WIPER INT	PASSING	HEADLAMP 1
INPUT 3	INT VOLUME 1	_	_	HEADLAMP 2	HI BEAM

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< SYSTEM DESCRIPTION >

System	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4	OUTPUT 5
INPUT 4	_	INT VOLUME 3	AUTO LIGHT	_	TAIL LAMP
INPUT 5	INT VOLUME 2	_	_	FR FOG	_

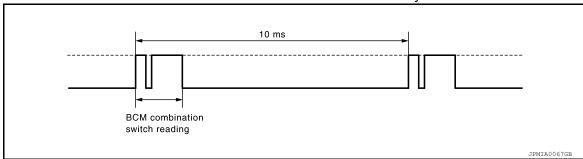
NOTE:

Headlamp has a dual system switch.

COMBINATION SWITCH READING FUNCTION

Description

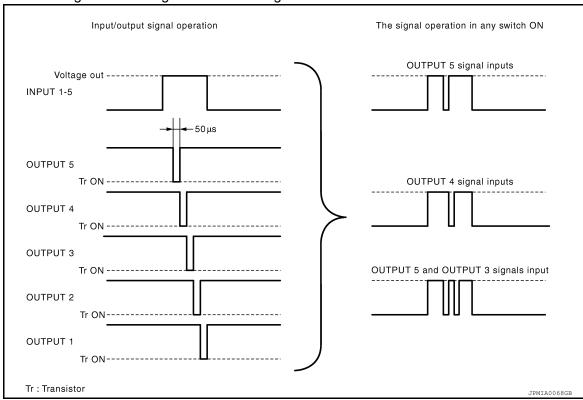
BCM reads the status of the combination switch at 10ms interval normally.



NOTE:

BCM reads the status of the combination switch at 60ms interval when BCM is controlled at low power consumption mode.

- BCM operates as follows and judges the status of the combination switch.
- INPUT 1 5 outputs the voltage waveforms of 5 systems simultaneously.
- It operates the transistor on OUTPUT side in the following order: OUTPUT $5 \rightarrow 4 \rightarrow 3 \rightarrow 2 \rightarrow 1$.
- The voltage waveform of INPUT corresponding to the formed circuit changes according to the operation of the transistor on OUTPUT side if any (1 or more) switches are ON.
- It reads this change of the voltage as the status signal of the combination switch.



Operation Example

In the following operation example, the combination of the status signals of the combination switch is replaced as follows: INPUT 1 - 5 to "1 - 5" and OUTPUT 1 - 5 to "A - E".

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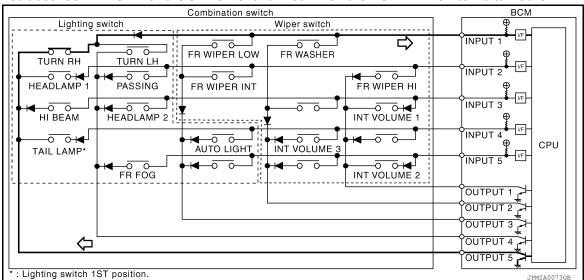
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< SYSTEM DESCRIPTION >

Example 1: When a switch (TURN RH switch) is turned ON

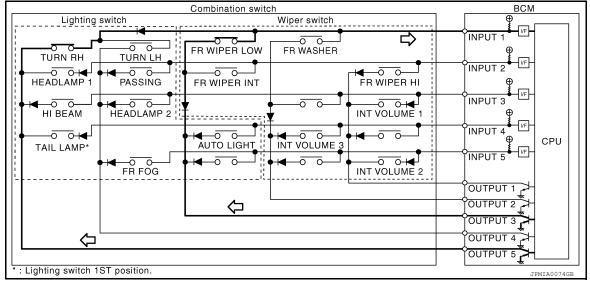
The circuit between INPUT 1 and OUTPUT 5 is formed when the TURN RH switch is turned ON.



- BCM detects the combination switch status signal "1E" when the signal of OUTPUT 5 is input to INPUT 1.
- BCM judges that the TURN RH switch is ON when the signal "1E" is detected.
- Example 2: When some switches (TURN RH switch, FR WIPER LOW switch) are turned ON

Example 2: When some switches (turn RH switch, front wiper LO switch) are turned ON

• The circuits between INPUT 1 and OUTPUT 5 and between INPUT 1 and OUTPUT 3 are formed when the TURN RH switch and FR WIPER LOW switch are turned ON.



- BCM detects the combination switch status signal "1CE" when the signals of OUTPUT 3 and OUTPUT 5 are input to INPUT 1.
- BCM judges that the TURN RH switch and FR WIPER LOW switch are ON when the signal "1CE" is detected.

WIPER INTERMITTENT DIAL POSITION SETTING (FRONT WIPER INTERMITTENT OPERATION) BCM judges the wiper intermittent dial 1 - 7 by the status of INT VOLUME 1, 2, and 3 switches.

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< SYSTEM DESCRIPTION >

Wiper intermittent dial posi-	Intermittent oper-			
tion	ation delay inter- val	INT VOLUME 1 switch	INT VOLUME 2 switch	INT VOLUME 3 switch
1	01. 1	ON	ON	ON
2	Short ↑	ON	ON	OFF
3		ON	OFF	OFF
4		OFF	OFF	OFF
5		OFF	OFF	ON
6	↓ Long	OFF	ON	ON
7	_59	OFF	ON	OFF

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000006918027

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ECU IDENTIFICATION

Displays the BCM part No.

SELF-DIAG RESULT

Refer to EXL-86, "DTC Index".

HEADLAMP

HEADLAMP: CONSULT Function (BCM - HEAD LAMP)

INFOID:0000000006918028

WORK SUPPORT

Service item	Setting item	Setting
BATTERY SAVER SET	ON*	With the exterior lamp battery saver function
BATTERT OAVEROLT	OFF	Without the exterior lamp battery saver function

^{* :} Initial setting

DATA MONITOR

Monitor item [Unit]	Description		
PUSH SW [ON/OFF]	The switch status input from push-button ignition switch		
ENGINE STATE [STOP/STALL/CRANK/RUN]	The engine status received from ECM with CAN communication		
VEH SPEED 1 [km/h]	The value of the vehicle speed received from combination meter with CAN communication		
KEY SW-SLOT [ON/OFF]	Key switch status input from key slot		
TURN SIGNAL R [ON/OFF]			
TURN SIGNAL L [ON/OFF]			
TAIL LAMP SW [ON/OFF]			
HI BEAM SW [ON/OFF]			
HEAD LAMP SW 1 [ON/OFF]	Each switch status that BCM judges from the combination switch reading funct		
HEAD LAMP SW 2 [ON/OFF]			
PASSING SW [ON/OFF]			
AUTO LIGHT SW* [ON/OFF]			
FR FOG SW [ON/OFF]			
DOOR SW-DR [ON/OFF]	The switch status input from front door switch (driver side)		
DOOR SW-AS [ON/OFF]	The switch status input from front door switch (passenger side)		

Revision: June 2012 EXL-23 2011 Altima GCC

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< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
DOOR SW-RR [ON/OFF]	The switch status input from rear door switch RH
DOOR SW- RL [ON/OFF]	The switch status input from rear door switch LH

^{*:} With auto light system

ACTIVE TEST

Test item	Operation	Description	
TAIL LAMP	ON	Transmits the Position light request signal to IPDM E/R with CAN communication to turn the tail lamp ON.	
	OFF	Stops the tail lamp request signal transmission.	
	HI	Transmits the high beam request signal with CAN communication to turn the headlamp (HI)	
HEAD LAMP	LOW	Transmits the low beam request signal with CAN communication to turn the headlamp (LOW).	
	OFF	Stops the high & low beam request signal transmission.	
FR FOG LAMP	ON	Transmits the front fog lights request signal to IPDM E/R with CAN communication to turn the front fog lamp ON.	
	OFF	Stops the front fog lights request signal transmission.	
ILL DIM SIGNAL	ON	Transmits the delay timer function timer operation time signal to IPDM E/R with CAN communication to turn the headlamps ON (All doors closed).	
	OFF	Stops the delay timer function timer signal transmission.	

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

INFOID:0000000006918029

WORK SUPPORT

Service item	Setting item	Setting			
	LOCK ONLY	Activated when locking.			
HAZARD ANSWER BACK	UNLOCK ONLY*	Activated when unlocking.	Sets the hazard warning lamp answer back activation when the door is lock/unlock with the request switch or		
	LOCK/UN- LOCK	Activated when locking/ unlocking	the key fob.		
	OFF	Not activated			

^{* :} Initial setting

DATA MONITOR

Monitor item [Unit]	Description	
REQ SW-DR [ON/OFF]	The switch status input from request switch (driver side)	
REQ SW-AS [ON/OFF]	The switch status input from front request switch (passenger side)	
PUSH SW [ON/OFF]	The switch status input from push-button ignition switch	
TURN SIGNAL R [ON/OFF]	Each quitab condition that DCM judges from the combination quitab reading function	
TURN SIGNAL L [ON/OFF]	Each switch condition that BCM judges from the combination switch reading function	

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description	
HAZARD SW [ON/OFF]	The switch status input from the hazard warning switch	
RKE-LOCK [ON/OFF]	The lock signal status received from the keyless receiver	
RKE-UNLOCK [ON/OFF]	The unlock signal status received from the keyless receiver	
RKE-PANIC [ON/OFF]	The panic alarm signal status received from the keyless receiver	

ACTIVE TEST

Test item	Operation	Description
	RH	Blinks right turn signal lamp.
FLASHER	LH	Blinks left turn signal lamp.
	OFF	Turns turn signal lamps (right and left) OFF.

COMB SW

COMB SW: CONSULT Function (BCM - COMB SW)

INFOID:0000000006918030

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DATA MONITOR

Monitor item [UNIT]	Description	
FR WIPER HI [OFF/ON]	Displays the status of the FR WIPER HI switch in combination switch judged by BCM with the combination switch reading function.	
FR WIPER LOW [OFF/ON]	Displays the status of the FR WIPER LOW switch in combination switch judged by BCM with the combination switch reading function.	
FR WASHER SW [OFF/ON]	Displays the status of the FR WASHER switch in combination switch judged by BCM with the combination switch reading function.	
FR WIPER INT [OFF/ON]	Displays the status of the FR WIPER INT switch in combination switch judged by BCM with the combination switch reading function.	
FR WIPER STOP [OFF/ON]	Displays the status of the front wiper stop position signal received from IPDM E/R via CAN communication.	
INT VOLUME [1 - 7]	Displays the status of wiper intermittent dial position judged by BCM with the combination switch reading function.	
TURN SIGNAL R [OFF/ON]	Displays the status of the TURN RH switch in combination switch judged by BCM with the combination switch reading function.	
TURN SIGNAL L [OFF/ON]	Displays the status of the TURN LH switch in combination switch judged by BCM with the combination switch reading function.	
TAIL LAMP SW OFF/ON]	Displays the status of the TAIL LAMP switch in combination switch judged by BCM with the combination switch reading function.	
HI BEAM SW [OFF/ON]	Displays the status of the HI BEAM switch in combination switch judged by BCM with the combination switch reading function.	
HEAD LAMP SW 1 [OFF/ON]	Displays the status of the HEADLAMP 1 switch in combination switch judged by BCM with the combination switch reading function.	
HEAD LAMP SW 2 [OFF/ON]	Displays the status of the HEADLAMP 2 switch in combination switch judged by BCM with the combination switch reading function.	
PASSING SW [OFF/ON]	Displays the status of the PASSING switch in combination switch judged by BCM with the combination switch reading function.	
AUTO LIGHT SW* [OFF/ON]	Displays the status of the AUTO LIGHT switch in combination switch judged by BCM with the combination switch reading function.	
FR FOG SW [OFF/ON]	Displays the status of the FR FOG switch in combination switch judged by BCM with the combination switch reading function.	

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< SYSTEM DESCRIPTION >

*: With auto light system

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000006918031

WORK SUPPORT

Service item	Setting item	Setting				
BATTERY SAVER SET	ON* With the exterior lamp battery saver for		exterior lamp battery saver function			
DATTENT SAVENSET	OFF	Without th	Without the exterior lamp battery saver function			
ROOM LAMP BAT SAV SET	ON*	With the interior room lamp battery saver function				
NOOM LAWF BAT SAV SET	OFF	Without the interior room lamp battery saver function				
ROOM LAMP TIMER SET	MODE 1*	15 min.	Sets the interior room lamp battery saver timer operating			
NOOW LAW TIVILIY SET	MODE 2	60 min.	time.			

^{*:} Initial setting

DATA MONITOR

Monitor item [Unit]	Description	
REQ SW-DR [ON/OFF]	The switch status input from request switch (driver side)	
REQ SW-AS [ON/OFF]	The switch status input from front request switch (passenger side)	
PUSH SW [ON/OFF]	The switch status input from push-button ignition switch	
ACC RLY-F/B [ON/OFF]	Indicates [ON/OFF] condition of accessory relay.	
UNLK SEN-DR [ON/OFF]	Status of front door lock assembly LH (door unlock sensor) judged by BCM	
KEY SW-SLOT [ON/OFF]	Key switch status input from key slot	
DOOR SW-DR [ON/OFF]	The switch status input from front door switch (driver side)	
DOOR SW-AS [ON/OFF]	The switch status input from front door switch (passenger side)	
DOOR SW-RR [ON/OFF]	The switch status input from rear door switch RH	
DOOR SW- RL [ON/OFF]	The switch status input from rear door switch LH	
CDL LOCK SW [ON/OFF]	Lock switch status received from central door lock switch by power window switch serial link	
CDL UNLOCK SW [ON/OFF]	Unlock switch status received from central door lock switch by power window switch serial link	
KEY CYL LK-SW [ON/OFF]	Lock switch status received from key cylinder switch by power window switch serial link	
KEY CYL UN-SW [ON/OFF]	Unlock switch status received from key cylinder switch by power window switch serial link	
TRNK/HAT MNTR [ON/OFF]	The switch status input from trunk room lamp switch	
RKE-LOCK [ON/OFF]	Lock signal status received from remote keyless entry receiver	
RKE-UNLOCK [ON/OFF]	Unlock signal status received from remote keyless entry receiver	

< SYSTEM DESCRIPTION >

ACTIVE TEST

Test item	Operation	Description
BATTERY SAVER	OFF	Cuts the interior room lamp power supply to turn interior room lamp OFF.
DATTERT SAVER	ON	Outputs the interior room lamp power supply to turn interior room lamp ON.*

^{*:} Each lamp switch is in ON position.

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< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:0000000006918032

AUTO ACTIVE TEST

Description

In auto active test mode, the IPDM E/R sends a drive signal to the following systems to check their operation.

- Oil pressure warning lamp
- Front wiper (LO, HI)
- · Parking lamps
- License plate lamps
- Tail lamps
- Front fog lamps (if equipped)
- Headlamps (LO, HI)
- A/C compressor (magnet clutch)
- Cooling fans

Operation Procedure

1. Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation)

NOTE:

When auto active test is performed with hood opened, sprinkle water on windshield beforehand.

- 2. Turn ignition switch OFF.
- Turn the ignition switch ON, and within 20 seconds, press the front door switch LH 10 times. Then turn the ignition switch OFF.

CAUTION:

Close front door RH.

- 4. Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.
- 5. The oil pressure warning lamp starts blinking when the auto active test starts.
- 6. After a series of the following operations is repeated 3 times, auto active test is completed.

NOTE:

When auto active test mode has to be cancelled halfway through test, turn ignition switch OFF.

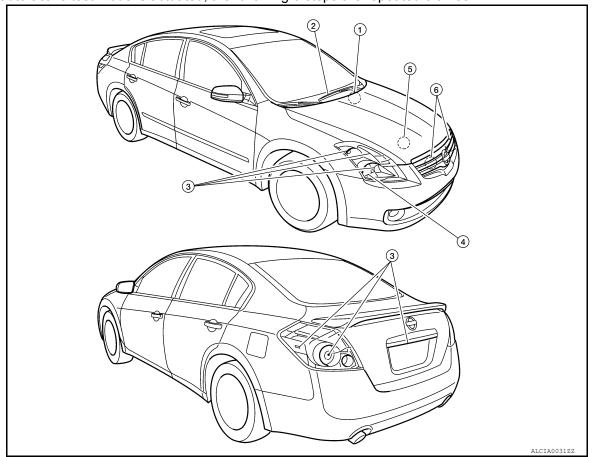
CAUTION:

- If auto active test mode cannot be actuated, check door switch system. Refer to DLK-286, "Description".
- Do not start the engine.

Inspection in Auto Active Test Mode

< SYSTEM DESCRIPTION >

When auto active test mode is actuated, the following 6 steps are repeated 3 times.



Operation sequence	Inspection Location	Operation
1	Oil pressure warning lamp	Blinks continuously during operation of auto active test
2	Front wiper	LO for 5 seconds → HI for 5 seconds
3	Parking lamps License plate lamps Tail lamps Front fog lamps (if equipped)	10 seconds
4	Headlamps	LO ⇔ HI 5 times
5	A/C compressor (magnet clutch)	ON ⇔ OFF 5 times
6*	Cooling fans	MID for 5 seconds → HI for 5 seconds

^{*:} Outputs duty ratio of 50% for 5 seconds \rightarrow duty ratio of 100% for 5 seconds on the cooling fan control module.

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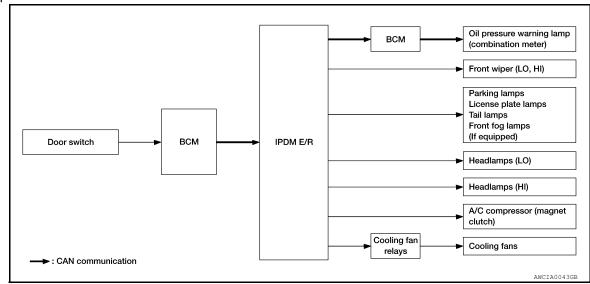
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< SYSTEM DESCRIPTION >

Concept of auto active test



- IPDM E/R starts the auto active test with the door switch signals transmitted by BCM via CAN communication. Therefore, the CAN communication line between IPDM E/R and BCM is considered normal if the auto active test starts successfully.
- The auto active test facilitates troubleshooting if any systems controlled by IPDM E/R cannot be operated.

Diagnosis chart in auto active test mode

Symptom	Inspection contents		Possible cause
		YES	BCM signal input circuit
Any of the following components do not operate Parking lamps License plate lamps Tail lamps Front fog lamps (if equipped) Headlamp (HI, LO) Front wiper	Perform auto active test. Does the applicable system operate?	NO	Lamp or motor Lamp or motor ground circuit Harness or connector between IPDM E/R and applicable system IPDM E/R
A/C compressor does not operate	Perform auto active test. Does the magnet clutch operate?	YES	Combination meter signal input circuit CAN communication signal between combination meter and ECM CAN communication signal between ECM and IPDM E/R
		NO	Magnet clutch Harness or connector between IPDM E/R and magnet clutch IPDM E/R

< SYSTEM DESCRIPTION >

Symptom	Inspection contents		Possible cause
	Perform auto active test. Does the oil pressure warning lamp blink?	YES	Harness or connector between IPDM E/R and oil pressure switch Oil pressure switch IPDM E/R
Oil pressure warning lamp does not operate		NO	 CAN communication signal between IPDM E/R and BCM CAN communication signal between BCM and combi- nation meter Combination meter
		YES	ECM signal input circuit CAN communication signal between ECM and IPDM E/R
Cooling fan does not operate	Perform auto active test. Does the cooling fan operate?	NO	 Cooling fan Harness or connector between cooling fan and cooling fan relays Cooling fan relays Harness or connector between IPDM E/R and cooling fan relays IPDM E/R

CONSULT Function (IPDM E/R)

INFOID:0000000006918033

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with IPDM E/R.

Diagnosis mode	Description
ECU Identification	Allows confirmation of IPDM E/R part number.
Self Diagnostic Result	Displays the diagnosis results judged by IPDM E/R.
Data Monitor	Displays the real-time input/output data from IPDM E/R input/output data.
Active Test	IPDM E/R can provide a drive signal to electronic components to check their operations.
CAN Diag Support Monitor	The results of transmit/receive diagnosis of CAN communication can be read.

SELF DIAGNOSTIC

Refer to EXL-97, "DTC Index".

DATA MONITOR

Monitor item

Monitor Item [Unit]	MAIN SIG- NALS	Description	
MOTOR FAN REQ [%]	×	Displays the value of the cooling fan speed signal received from ECM via CAN communication.	
AC COMP REQ [Off/On]	×	Displays the status of the A/C compressor request signal received from ECM via CAN communication.	
TAIL&CLR REQ [Off/On]	×	Displays the status of the position light request signal received from BCM via CAN communication.	
HL LO REQ [Off/On]	×	Displays the status of the low beam request signal received from BCM via CAN communication.	
HL HI REQ [Off/On]	×	Displays the status of the high beam request signal received from BCM via CAN communication.	

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Revision: June 2012 EXL-31 2011 Altima GCC

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	MAIN SIG- NALS	Description
FR FOG REQ [Off/On]	×	Displays the status of the front fog light request signal received from BCM via CAN communication.
FR WIP REQ [Stop/1LOW/Low/Hi]	×	Displays the status of the front wiper request signal received from BCM via CAN communication.
WIP AUTO STOP [STOP P/ACT P]	×	Displays the status of the front wiper auto stop signal judged by IPDM E/R.
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.
IGN RLY1 -REQ [Off/On]		Displays the status of the ignition switch ON signal received from BCM via CAN communication.
IGN RLY [Off/On]	×	Displays the status of the ignition relay judged by IPDM E/R.
PUSH SW [Off/On]		Displays the status of the push-button ignition switch judged by IPDM E/R.
INTER/NP SW [Off/On]		Displays the status of the clutch interlock switch (M/T models) or CVT shift position (CVT models) judged by IPDM E/R.
ST RLY CONT [Off/On]		Displays the status of the starter relay status signal received from BCM via CAN communication.
IHBT RLY -REQ [Off/On]		Displays the status of the starter control relay signal received from BCM via CAN communication.
ST/INHI RLY [Off/ ST /INHI]		Displays the status of the starter relay and starter control relay judged by IPDM E/R.
DETENT SW [Off/On]		Displays the status of the CVT shift selector (detention switch) judged by IPDM E/R.
S/L RLY -REQ [Off/On]		Displays the status of the steering lock relay request received from BCM via CAN communication.
S/L STATE [LOCK/UNLK/UNKWN]		Displays the status of the electronic steering column lock judged by IPDM E/R.
OIL P SW [Open/Close]		Displays the status of the oil pressure switch judged by IPDM E/R.
THFT HRN REQ [Off/On]		Displays the status of the theft warning horn request signal received from BCM via CAN communication.
HORN CHIRP [Off/On]		Displays the status of the horn reminder signal received from BCM via CAN communication.

ACTIVE TEST

Test item

Test item	Operation	Description	
HORN	On	Operates horn relay 1 and horn relay 2 for 20 ms.	
	Off	OFF	
FRONT WIPER	Lo	Operates the front wiper relay.	
	Hi	Operates the front wiper relay and front wiper high relay.	
	1	OFF	
MOTOR FAN	2	Outputs 50% pulse duty signal (PWM signal) to the cooling fan control module.	
	3	Outputs 80% pulse duty signal (PWM signal) to the cooling fan control module.	
	4	Outputs 100% pulse duty signal (PWM signal) to the cooling fan control module.	

< SYSTEM DESCRIPTION >

Test item	Operation	Description	
Off TAIL Lo Hi	Off	OFF	
	TAIL	Operates the tail lamp relay.	
	Lo	Operates the headlamp low relay.	
	Hi	Operates the headlamp low relay and ON/OFF the headlamp high relay at 1 second intervals.	
	Fog	Operates the front fog lamp relay.	

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000006918039

Regarding Wiring Diagram information, refer to <u>BCS-70, "Wiring Diagram - Coupe"</u> or <u>BCS-79, "Wiring Diagram - Sedan"</u>.

1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuse or fusible link are blown.

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	Н
11	Dattery power supply	10

Is the fuse or fusible link blown?

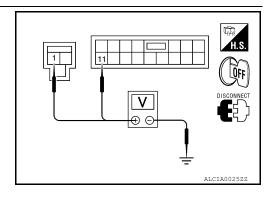
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM.
- 3. Check voltage between BCM harness connector and ground.

(+)	(-)	Voltage	
В	СМ		(Approx.)	
Connector	Terminal	Ground		
M16	1	Ground	Pottoni voltogo	
M17	11		Battery voltage	



Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

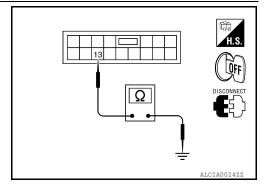
Check continuity between BCM harness connector and ground.

В	BCM		Continuity
Connector Terminal		Ground	Continuity
M17	M17 13		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



BCM (BODY CONTROL MODULE): Special Repair Requirement

INFOID:0000000006918040

1. REQUIRED WORK WHEN REPLACING BCM

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Initialize control unit. Refer to <u>BCS-3</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

>> Work End.

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) : Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>PCS-31, "Wiring Diagram - Coupe"</u> or <u>PCS-37, "Wiring Diagram - Sedan"</u>.

1. CHECK FUSES AND FUSIBLE LINK

Check that the following IPDM E/R fuses or fusible link are not blown.

Terminal No.	Signal name	Fuses and fusible link No.
1, 2		B, D
	Battery power supply	42
_		43

Is the fuse blown?

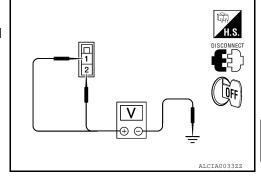
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect IPDM E/R connectors.
- Check voltage between IPDM E/R harness connector and ground.

Terminals				
(+)	(-)	Voltage (V)	
IPDM E/R		(-)	(Approx.)	
Connector	Terminal			
E16	1	Ground	Battery voltage	
	2		Dattery Voltage	



Is the measurement value normal?

YES >> GO TO 3

NO >> Repair harness or connector.

$oldsymbol{3}$. CHECK GROUND CIRCUIT

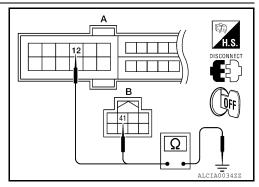
Check continuity between IPDM E/R harness connectors and ground.

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
A: E18	12	Ground	Yes
B: E17	41		165

Does continuity exist?

YES >> Inspection End.

NO >> Repair harness or connector.



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HEADLAMP (HI) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

HEADLAMP (HI) CIRCUIT

Description INFOID:000000006390310

The IPDM E/R (intelligent power distribution module engine room) controls the headlamp high relay based on inputs from the BCM over the CAN communication lines. When the headlamp high relay is energized, power flows through fuses 48 and 49, located in the IPDM E/R. Power then flows to the front combination lamps to the headlamp high beam.

Component Function Check

INFOID:0000000006390311

1. CHECK HEADLAMP (HI) OPERATION

NWITHOUT CONSULT

- 1. Start IPDM E/R auto active test. Refer to PCS-11, "Diagnosis Description".
- 2. Check that the headlamp switches to the high beam.

NOTE:

HI/LO is repeated 1 second each when using the IPDM E/R auto active test.

CONSULT

- Select "EXTERNAL LAMPS" of IPDM E/R active test item.
- 2. With operating the test items, check that the headlamp switches to the high beam.

HI: Headlamp switches to the high beam.

OFF : Headlamp OFF

Does the headlamp switch to the high beam?

YES >> Headlamp (HI) circuit is normal.

NO >> Refer to <u>EXL-36</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000006390312

Regarding Wiring Diagram information, refer to <u>EXL-99</u>, "<u>Wiring Diagram - Coupe</u>" or <u>EXL-104</u>, "<u>Wiring Diagram - Sedan</u>" for halogen headlamp system or <u>EXL-109</u>, "<u>Wiring Diagram - Coupe</u>" or <u>EXL-114</u>, "<u>Wiring Diagram - Sedan</u>" for xenon headlamp system.

1. CHECK HEADLAMP (HI) FUSES

- 1. Turn the ignition switch OFF.
- 2. Check that the following fuses are not open.

Unit	Location	Fuse No.	Capacity
Headlamp HI (LH)	IPDM E/R	48	10A
Headlamp HI (RH)	IPDM E/R	49	10A

Is the fuse open?

YES >> Replace the fuse after repairing the affected circuit.

NO >> GO TO 2

2.CHECK HEADLAMP (HI) OUTPUT VOLTAGE

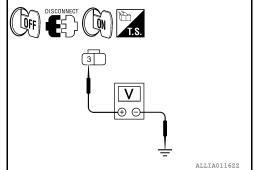
(R)CONSULT ACTIVE TEST

- 1. Turn the ignition switch OFF.
- Disconnect the front combination lamp connector.
- Turn the ignition switch ON.
- Select "EXTERNAL LAMPS" of IPDM E/R active test item.

< DTC/CIRCUIT DIAGNOSIS >

With EXTERNAL LAMPS ON, check the voltage between the combination lamp connector and ground.

(+)			(-)	Voltage	
Co	nnector	Terminal	(-)	voltage	
RH	E222	3	Ground	Potton, voltago	
LH	E213	3	Giodila	Battery voltage	



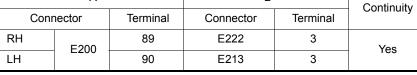
Is battery voltage present?

YES >> GO TO 4 NO >> GO TO 3

3.check headlamp (HI) circuit for open

- Turn the ignition switch OFF.
- Disconnect IPDM E/R connector E200. 2.
- Check continuity between the IPDM E/R harness connector and the front combination lamp harness connector.

A			В	Continuity	
Conr	nector	Terminal	Connector	Terminal	Continuity
RH	E200	89	E222	3	Yes
LH	E200	90	E213	3	165



Does continuity exist?

YES >> Replace IPDM E/R. Refer to PCS-45, "Removal and Installation".

NO >> Repair the harness or connector.

4. CHECK FRONT COMBINATION LAMP (HI) GROUND CIRCUIT

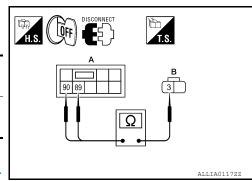
- Turn the ignition switch OFF.
- Check continuity between the front combination lamp harness connector and ground.

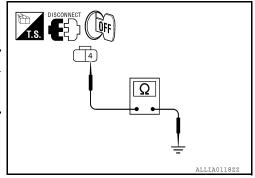
Conr	nector	Terminal	_	Continuity
RH	E222	4	Ground	Yes
LH	E213	4	Giodila	163

Does continuity exist?

YES >> Inspect the headlamp bulb.

NO >> Repair the harness.





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EXL-37 Revision: June 2012 2011 Altima GCC

< DTC/CIRCUIT DIAGNOSIS >

HEADLAMP (LO) CIRCUIT HEADLAMP (HALOGEN)

HEADLAMP (HALOGEN): Description

INFOID:0000000006390313

The IPDM E/R (intelligent power distribution module engine room) controls the headlamp low relay based on inputs from the BCM over the CAN communication lines. When the headlamp low relay is energized, power flows through fuses 51 and 52, located in the IPDM E/R. Power then flows to the front combination lamps to the headlamp low beam.

HEADLAMP (HALOGEN): Component Function Check

INFOID:0000000006390314

1. CHECK HEADLAMP (LO) OPERATION

NWITHOUT CONSULT

- Start IPDM E/R auto active test. Refer to <u>PCS-11, "Diagnosis Description"</u>.
- 2. Check that the headlamp is turned ON.

NOTE:

HI/LO is repeated 1 second each when using the IPDM E/R auto active test.

(P)CONSULT

- 1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
- 2. With operating the test items, check that the headlamp is turned ON.

LO : Headlamp ON OFF : Headlamp OFF

Is the headlamp turned ON?

YES >> Headlamp (LO) is normal.

NO >> Refer to EXL-38, "HEADLAMP (HALOGEN) : Diagnosis Procedure".

HEADLAMP (HALOGEN): Diagnosis Procedure

INFOID:0000000006390315

Regarding Wiring Diagram information, refer to <u>EXL-99</u>, "Wiring <u>Diagram - Coupe"</u> or <u>EXL-104</u>, "Wiring <u>Diagram - Sedan"</u>.

1.CHECK HEADLAMP (LO) FUSES

- 1. Turn the ignition switch OFF.
- 2. Check that the following fuses are not open.

Unit	Location	Fuse No.	Capacity
Headlamp LO (LH)	IPDM E/R	51	15A
Headlamp LO (RH)	IPDM E/R	52	15A

Is the fuse open?

YES >> Replace the fuse after repairing the affected circuit.

NO >> GO TO 2

2.CHECK HEADLAMP (LO) OUTPUT VOLTAGE

(P)CONSULT

- Turn the ignition switch OFF.
- 2. Disconnect the front combination lamp connector.
- Turn the ignition switch ON.
- 4. Select "EXTERNAL LAMPS" of IPDM E/R active test item.

< DTC/CIRCUIT DIAGNOSIS >

With EXTERNAL LAMPS ON, check the voltage between the combination lamp connector and ground.

(+)			(-)	Voltage	
Co	nnector	Terminal	(-)	voltage	
RH	E223	1	Ground	Battery voltage	
LH	E212	1	Glound	Battery voltage	

DISCONNECT TIS. ALLIA0119ZZ

Is battery voltage present?

YES >> GO TO 4 NO >> GO TO 3

$3. {\sf CHECK}$ HEADLAMP (LO) CIRCUIT FOR OPEN

- Turn the ignition switch OFF.
- Disconnect IPDM E/R connector E200.
- 3. Check continuity between the IPDM E/R harness connector (A) and the front combination lamp harness connector (B).

A		В		Continuity	
Con	nector	Terminal	Connector	Terminal	Continuity
RH	E200	83	E223	1	Yes
LH	L200	84	E212	1	165

Does continuity exist?

YES >> Replace IPDM E/R. Refer to <u>PCS-45</u>, "Removal and <u>Installation"</u>.

NO >> Repair the harness or connector.

4. CHECK FRONT COMBINATION LAMP (LO) GROUND CIRCUIT

- 1. Turn the ignition switch OFF.
- Check continuity between the front combination lamp harness connector and ground.

Con	nector	Terminal	_	Continuity
RH	E223	2	Ground	Yes
LH	E212	2	Ground	165

DISCONNECT IN.S.

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Does continuity exist?

YES >> Inspect the headlamp bulb.

NO >> Repair the harness.

HEADLAMP (XENON)

HEADLAMP (XENON): Description

The IPDM E/R (intelligent power distribution module engine room) controls the headlamp low relay based on inputs from the BCM over the CAN communication lines. When the headlamp low relay is energized, power flows through fuses 51 and 52, located in the IPDM E/R. Power then flows to the front combination lamps to the headlamp low beam.

EXL-39

HEADLAMP (XENON): Component Function Check

1. CHECK HEADLAMP (LO) OPERATION

MWITHOUT CONSULT

- Start IPDM E/R auto active test. Refer to <u>PCS-11, "Diagnosis Description"</u>.
- 2. Check that the headlamp is turned ON.

NOTE:

Revision: June 2012

HI/LO is repeated 1 second each when using the IPDM E/R auto active test.

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< DTC/CIRCUIT DIAGNOSIS >

(P)CONSULT

1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.

2. With operating the test items, check that the headlamp is turned ON.

LO : Headlamp ON OFF : Headlamp OFF

Is the headlamp turned ON?

YES >> Headlamp (LO) is normal.

NO >> Refer to EXL-40, "HEADLAMP (XENON): Diagnosis Procedure".

HEADLAMP (XENON): Diagnosis Procedure

INFOID:0000000006390318

Regarding Wiring Diagram information, refer to <u>EXL-109</u>, "Wiring Diagram - Coupe" or <u>EXL-114</u>, "Wiring Diagram - Sedan".

1. CHECK HEADLAMP (LO) FUSES

- 1. Turn the ignition switch OFF.
- 2. Check that the following fuses are not open.

Unit	Location	Fuse No.	Capacity
Headlamp LO (LH)	IPDM E/R	51	15A
Headlamp LO (RH)	IPDM E/R	52	15A

Is the fuse open?

YES >> Replace the fuse after repairing the affected circuit.

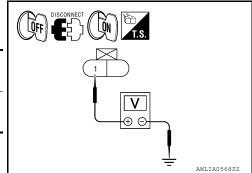
NO >> GO TO 2

2.CHECK HEADLAMP (LO) OUTPUT VOLTAGE

CONSULT

- 1. Turn the ignition switch OFF.
- 2. Disconnect the front combination lamp connector.
- 3. Turn the ignition switch ON.
- 4. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
- 5. With EXTERNAL LAMPS ON, check the voltage between the combination lamp connector and ground.

(+)			(-)	Voltage
Со	nnector	Terminal	(-)	voltage
RH	E223	1	Ground	Battery voltage
LH	E212	1	Ground	Battery Voltage



Is battery voltage present?

YES >> GO TO 4 NO >> GO TO 3

NO >> GO TO 3

3.CHECK HEADLAMP (LO) CIRCUIT FOR OPEN

- Turn the ignition switch OFF.
- Disconnect IPDM E/R connector E200.

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between the IPDM E/R harness connector (A) and the front combination lamp harness connector (B).

A		В	Continuity		
Con	nector	Terminal	Connector	Terminal	Continuity
RH	E200	83	E223	1	Yes
LH	E200	84	E212	1	162

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Does continuity exist?

YES >> Replace IPDM E/R. Refer to <u>PCS-45, "Removal and Installation"</u>.

NO >> Repair the harness or connector.

4.CHECK FRONT COMBINATION LAMP (LO) GROUND CIRCUIT

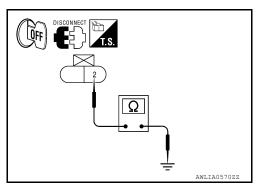
- 1. Turn the ignition switch OFF.
- 2. Check continuity between the front combination lamp harness connector and ground.

Coni	nector	Terminal	_	Continuity
RH	E223	2	Ground	Yes
LH	E212	2	Ground	163

Does continuity exist?

YES >> Perform xenon headlamp diagnosis. Refer to <u>EXL-42</u>, <u>"Description"</u>.

NO >> Repair the harness.



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XENON HEADLAMP

< DTC/CIRCUIT DIAGNOSIS >

XENON HEADLAMP

Description INFOID:0000000006918054

OPERATION

Refer to EXL-8, "Component Description".

PRECAUTIONS FOR TROUBLE DIAGNOSIS

- Installation or removal of the connector must be done with the lighting switch OFF.
- When the lamp is illuminated (when the lighting switch is ON), do not touch the harness, HID control unit, inside of the lamp, or the lamp metal parts.
- To check illumination, temporarily install lamp in the vehicle. Be sure to connect power at the vehicle-side connector.
- If the malfunction can be traced directly to the electrical system, first check for items such as blown fuses
 and fusible links, broken wires or loose connectors, pulled-out terminals, and improper connections.
- · Do not work with wet hands.
- Using a tester for HID control unit circuit trouble diagnosis is prohibited.
- Disassembling the HID control unit or harnesses (bulb socket harness, ballast harness) is prohibited.
- Immediately after illumination, the light intensity and color will fluctuate, this is normal.
- When the bulb has reached the end of its lifetime, the brightness may drop significantly, it may flash repeatedly, or the light may turn a reddish color.

Diagnosis Procedure

INFOID:0000000006918055

1. CHECK XENON BULB

Install a known good bulb to the applicable headlamp. Check that the headlamp operates.

Is the inspection result normal?

YES >> Replace the xenon bulb.

NO >> GO TO 2.

2. CHECK HID CONTROL UNIT

Install a known good HID control unit to the applicable headlamp. Check that the headlamp operates.

Is the inspection result normal?

YES >> Replace HID control unit.

NO >> Inspection End.

FRONT FOG LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FRONT FOG LAMP CIRCUIT

Description INFOID:0000000006390319

The IPDM E/R (intelligent power distribution module engine room) controls the front fog lamp relay based on inputs from the BCM over the CAN communication lines. When the front fog lamp relay is energized, power flows from the front fog lamp relay in the IPDM E/R to the front fog lamps.

Component Function Check

${f 1}$. CHECK FRONT FOG LAMP OPERATION

®WITHOUT CONSULT

- Activate IPDM E/R auto active test. Refer to PCS-11, "Diagnosis Description".
- Check that the front fog lamp is turned ON.

(P)CONSULT

- Select "EXTERNAL LAMPS" of IPDM E/R active test item.
- With operating the test items, Check that the front fog lamp is turned ON.

FOG : Front fog lamp ON OFF : Front fog lamp OFF

Is the front fog lamp turned ON?

YES >> Front fog lamp circuit is normal.

NO >> Refer to EXL-43, "Diagnosis Procedure".

Diagnosis Procedure

Regarding Wiring Diagram information, refer to EXL-131, "Wiring Diagram - Coupe" or EXL-136, "Wiring Diagram - Sedan".

1. CHECK FRONT FOG LAMP FUSE

- Turn the ignition switch OFF.
- Check that the following fuses are not open.

Unit	Location	Fuse No.	Capacity
Front fog lamp	IPDM E/R	53	15A

Is the fuse open?

YES >> Replace the fuse after repairing the affected circuit.

NO >> GO TO 2

2.CHECK FRONT FOG LAMP OUTPUT VOLTAGE

(P)CONSULT

- Turn the ignition switch OFF.
- Disconnect the front fog lamp connector.
- Turn the ignition switch ON.
- Select "EXTERNAL LAMPS" of IPDM E/R active test item.

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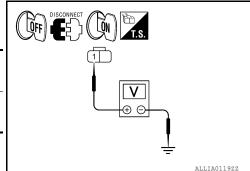
INFOID:0000000006390321

FRONT FOG LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

With EXTERNAL LAMPS ON, check the voltage between the fog lamp connector and ground.

	(+)		(-)	Voltage	
Connector		Terminal	(-)	voltage	
LH	E214	1	Ground	Battery voltage	
RH	E227	1	Giouna	Ballery Vollage	



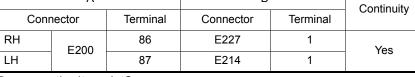
Is battery voltage present?

YES >> GO TO 4 NO >> GO TO 3

${f 3}.$ CHECK FRONT FOG LAMP OPEN CIRCUIT

- Turn the ignition switch OFF.
- Disconnect IPDM E/R connector E200. 2.
- Check continuity between the IPDM E/R harness connector (A) and the front fog lamp harness connector (B).

А			В	Continuity	
Connector Terminal		Connector	Connector Terminal		
RH	E200	86	E227	1	Yes
LH	E200	87	E214	1	165



Does continuity exist?

YES >> Replace IPDM E/R. Refer to PCS-45, "Removal and Installation".

NO >> Repair the harness or connector.

4. CHECK FRONT FOG LAMP GROUND CIRCUIT

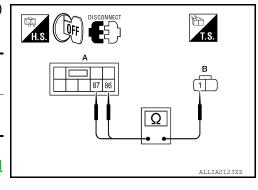
- Turn the ignition switch OFF.
- Check continuity between the front fog lamp harness connector and ground.

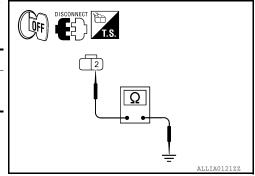
Conr	nector	Terminal	_	Continuity
RH	E227	2	Ground	Yes
LH	E214	2	Ground	165

Does continuity exist?

YES >> Inspect the fog lamp bulb.

NO >> Repair the harness.





PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PARKING LAMP CIRCUIT

Description INFOID:0000000006390322

The IPDM E/R (intelligent power distribution module engine room) controls the tail lamp relay based on inputs from the BCM over the CAN communication lines. When the tail lamp relay is energized, power flows through fuses 46 and 47, located in the IPDM E/R. Power then flows to the front and rear combination lamps, license plate lamps.

Component Function Check

INFOID:0000000006390323

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1.CHECK PARKING LAMP OPERATION

NWITHOUT CONSULT

- 1. Activate IPDM E/R auto active test. Refer to PCS-11, "Diagnosis Description".
- Check that the parking lamp is turned ON.

(P)CONSULT

- 1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
- With operating the test items, check that the parking lamp is turned ON.

TAIL : Parking lamp ON **OFF** : Parking lamp OFF

Is the parking lamp turned ON?

YES >> Parking lamp circuit is normal.

>> Refer to EXL-45, "Diagnosis Procedure". NO

Diagnosis Procedure

INFOID:0000000006390324

Regarding Wiring Diagram information, refer to EXL-157, "Wiring Diagram - Coupe" or EXL-165, "Wiring Diagram - Coupe" or E gram - Sedan".

1. CHECK PARKING LAMP FUSES

- Turn the ignition switch OFF.
- Check that the following fuses are not open.

Unit	Location	Fuse No.	Capacity
Parking lamps (front)	IPDM E/R	46	10A
Parking lamps (rear)	IPDM E/R	47	10A

Is the fuse open?

YES >> Replace the fuse after repairing the affected circuit.

NO >> GO TO 2

2.CHECK TAIL LAMP RELAY OUTPUT (VOLTAGE)

(P)CONSULT

- Turn the ignition switch OFF.
- Disconnect the front and rear combination lamp connectors, license plate lamp connectors.
- Turn the ignition switch ON.
- Select "EXTERNAL LAMPS" of IPDM E/R active test item.
- With EXTERNAL LAMPS ON, check the voltage between the front combination lamp connector, rear combination lamp connector, license plate lamp connector and ground.

(+)			Voltage
Connector	Terminal	(-)	voltage

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PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Parking lamps (Sedan)	E218 (LH), E225 (RH)	8		
Parking lamps (Coupe)	E235 (LH), E236 (RH)	10		
Side marker lamps (Sedan)	E235 (LH), E236 (RH)	10	Ground	Battery voltage
Tail lamps	B30 (LH), B45 (RH)	2		
License plate lamps (Sedan)	B34 (LH), B32 (RH)	1		
License plate lamps (Coupe)	T6 (LH), T8 (RH)	1		

Is battery voltage present?

YES >> GO TO 4 NO >> GO TO 3

3.check parking lamp circuit (open)

- Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R connector.
- Check continuity between the IPDM E/R harness connector and the front combination lamp harness connector, rear combination lamp harness connector, license plate lamp harness connector.

Connector		Terminal	Connector	Terminal	Continuity
Parking lamps (Sedan)			E218 (LH), E225 (RH)	8	
Parking lamps (Coupe)	E201	92 (LH), 91 (RH)	E235 (LH), E236 (RH)	10	
Side marker lamps (Sedan)			E235 (LH), E236 (RH)	10	Yes
Tail lamps			B30 (LH), B45 (RH)	2	
License plate lamps (Sedan)	E18	7	B34 (LH), B32 (RH)	1	
License plate lamps (Coupe)			T6 (LH), T8 (RH)	1	

Does continuity exist?

YES >> Replace IPDM E/R. Refer to PCS-45, "Removal and Installation".

NO >> Repair the harness or connector.

4. CHECK PARKING LAMP GROUND CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Check continuity between the front combination lamp harness connector, rear combination lamp harness connector, license plate lamp harness connector and ground.

Co	onnector	Terminal	_	Continuity
Parking lamps (Sedan)	E218 (LH), E225 (RH)	9		
Parking lamps (Coupe)	E235 (LH), E236 (RH)	11		
Side marker lamps (Sedan)	E235 (LH), E236 (RH)	11	Ground	Yes
Tail lamps	B30 (LH), B45 (RH)	5		
License plate lamps (Sedan)	B34 (LH), B32 (RH)	2		
License plate lamps (Coupe)	T6 (LH), T8 (RH)	2		

PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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Does	CON	tinı	ιitv	exist?

YES >> Inspect the parking lamp bulb.

NO >> Repair the harness.

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TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TURN SIGNAL LAMP CIRCUIT

Description INFOID:000000006390325

The BCM monitors inputs from the combination switch (lighting and turn signal switch) to determine when to activate the turn signals. The BCM outputs voltage direction to the left and right turn signals during turn signal operation or both during hazard warning operation. The BCM sends a turn signal indicator request to the combination meter via the CAN communication lines.

The BCM performs the fast flasher operation (fail-safe) if any bulb or harness of the turn signal lamp circuit is open.

NOTE:

Turn signal lamp blinks at normal speed when using the hazard warning lamp.

Component Function Check

INFOID:0000000006390326

1. CHECK TURN SIGNAL LAMP

CONSULT

- 1. Select "FLASHER" of BCM (FLASHER) active test item.
- 2. With operating the test items, check that the turn signal lamp blinks.

LH: Turn signal lamp LH blinking
RH: Turn signal lamp RH blinking
OFF: The turn signal lamp OFF

Does the turn signal lamp blink?

YES >> Turn signal lamp circuit is normal.

NO >> Refer to EXL-48, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006390327

Regarding Wiring Diagram information, refer to <u>EXL-141, "Wiring Diagram - Coupe"</u> or <u>EXL-149, "Wiring Diagram - Sedan"</u>.

1. CHECK TURN SIGNAL LAMP BULB

Check the applicable lamp bulb to be sure the proper bulb standard is in use and the bulb is not open.

Is the bulb OK?

YES >> GO TO 2

NO >> Replace the bulb.

2.CHECK TURN SIGNAL LAMP OUTPUT VOLTAGE

- Turn the ignition switch OFF.
- 2. Disconnect the front combination lamp connector, the door mirror connector (if equipped with turn signal in mirrors) and the rear combination lamp connector.
- Turn the ignition switch ON.
- With operating the turn signal switch, check the voltage between the front combination lamp harness connector and the ground.

(+)		(_)	Voltage
Connector Terminal		(-)	Voltage

TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

(RH)	E224	5		0.0
(LH)	E217	5	Ground	(V) 15 10 5 0

5. With operating the turn signal switch, check the voltage between the rear combination lamp harness connector and the ground.

	(+)		()	Voltage
Con	nector	Terminal	(-)	voltage
(RH)	B45	3		
(LH)	B30	3	Ground	(V) 15 10 10 1 s

6. With operating the turn signal switch, check the voltage between the door mirror (if equipped with turn signal in the mirrors) harness connector and the ground.

	(+)		()	Voltage	
Con	nector	Terminal	(–)	voitage	
(RH)	D107	7			
(LH)	D4	7	Ground	(V) 15 10 5 0	

Is the measurement value normal?

YES >> GO TO 5

NO >> GO TO 3

3.check turn signal lamp circuit for open

- 1. Turn the ignition switch OFF.
- 2. Disconnect BCM connector M17.
- 3. Check continuity between the BCM harness connector M17 and the front combination lamp connector.

ВСМ			Front combination lamp		Continuity
Con	nector	Terminal	Connector	Terminal	Continuity
Front LH	M17	17	E217	5	Yes
Front RH		18	E224	3	165

4. Check continuity between the BCM harness connector M17 and the rear combination lamp connector.

ВСМ			Rear comb	ination lamp	Continuity
Connector		Terminal	Connector	Terminal	Continuity
Rear LH	M17	17	B30	3	Yes
Rear RH	IVI I	18	B45	3	165

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< DTC/CIRCUIT DIAGNOSIS >

5. Check continuity between the BCM harness connector M17 and the door mirror connector (if equipped with turn signal in mirror).

BCM			Door	Continuity	
Connector		Terminal	Connector	Terminal	Continuity
LH	M17	17	D4	7	Yes
RH	IVIII	18	D107	7	165

Is continuity present?

YES >> GO TO 4

NO >> Repair the harness or connector.

4. CHECK TURN SIGNAL LAMP SHORT CIRCUIT

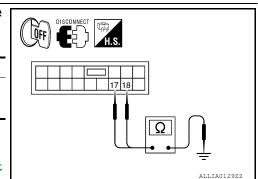
Check continuity between the BCM harness connector and the ground.

Coni	Connector		_	Continuity
LH			Ground	No
RH	M17	17	Ground	INO

Does continuity exist?

YES >> Repair the harness or connector.

NO >> Replace BCM. Refer to <u>BCS-92</u>, "Removal and Installation".



5. CHECK TURN SIGNAL LAMP GROUND CIRCUIT

1. Check continuity between the front combination lamp harness connector and ground.

Connector		Terminal	_	Continuity
Front LH	E217	7	Ground	Yes
Front RH	E224	,	Ground	103

2. Check continuity between the rear combination lamp harness connector and ground.

Connector		Terminal	_	Continuity
Rear LH	B30	5	Ground	Yes
Rear RH	B45	3	Sibulia	163

3. Check continuity between the door mirror harness connector (if equipped with turn signal in mirrors) and ground.

Connector		Terminal	_	Continuity
Door mirror LH D4		Ω	Ground	Yes
Door mirror RH	D107	O O	Ground	163

Is continuity present?

YES >> Replace the malfunctioning lamp.

NO >> Repair the harness or connector.

STOP LAMP

Diagnosis Procedure (With CVT)

INFOID:0000000006918056

Regarding Wiring Diagram information, refer to EXL-173, "Wiring Diagram - Coupe" or EXL-178, "Wiring Diagram - Sedan".

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1. CHECK STOP LAMP OPERATION 1

Check stop lamp operation.

Are all stop lamps inoperative?

YES >> GO TO 2

NO-1 >> LH stop lamp only, GO TO 4

NO-2 >> RH stop lamp and/or high mounted stop lamp, GO TO 7

2.CHECK FUSE

- Turn the ignition switch OFF.
- Check fuse block J/B fuse 7 (10A) for an open.

Is the fuse open?

YES >> Replace the fuse after repairing the affected circuit.

NO >> GO TO 3

3.CHECK STOP LAMP SWITCH

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Perform the stop lamp switch component inspection. Refer to EXL-53, "Component Inspection (Stop Lamp Switch)".

Is the inspection result normal?

YES

- Repair or replace the following:
 - circuit between fuse block J/B and joint connector E07.
 - circuit between joint connector E07 and stop lamp switch.
 - circuit between stop lamp switch and joint connector E14.
 - joint connector E07.
 - joint connector E14.
 - · ground E15.

NO >> Replace stop lamp switch.

4.CHECK STOP LAMP RELAY-2

Perform the stop lamp relay-2 component inspection. Refer to EXL-53, "Component Inspection (Stop Lamp Relay)".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace stop lamp relay-2.

5. CHECK REAR COMBINATION LAMP LH VOLTAGE CIRCUIT

Connect stop lamp relay-2 connector.

- Disconnect rear combination lamp LH connector. 2.
- Check voltage between rear combination lamp LH connector B30 terminal 1 and ground.

Rear combination lamp LH		Ground	Condition	Voltage	
Connector	Terminal	Giodila	Condition	(Approx.)	
B30	1		Brake pedal depressed	Battery voltage	
	·	_	Brake pedal released	0V	

Is the inspection result normal?

YES >> GO TO 6

NO >> Repair circuit between stop lamp relay-2 and rear combination lamp LH.

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STOP LAMP

< DTC/CIRCUIT DIAGNOSIS >

6. CHECK REAR COMBINATION LAMP LH GROUND CIRCUIT

Check continuity between rear combination lamp LH connector B30 terminal 5 and ground.

Rear combination lamp LH		Ground	Continuity	
Connector	Terminal	Giodila		
B30	5	-	Yes	

Is the inspection result normal?

YES >> Replace rear combination lamp LH. Refer to <u>EXL-214</u>, "Removal and Installation".

NO >> Repair rear combination lamp LH ground circuit.

.CHECK STOP LAMP OPERATION 2

Check RH stop lamp and high mounted stop lamp operation.

Are both the RH stop lamp and high mounted stop lamp inoperative?

YES >> GO TO 8

NO-1 >> RH stop lamp only, GO TO 9

NO-2 >> high mounted stop lamp only, GO TO 11

8.CHECK STOP LAMP RELAY-1

Perform the stop lamp relay-1 component inspection. Refer to <u>EXL-53</u>, "Component Inspection (Stop Lamp Relay)".

Is the inspection result normal?

YES >> Repair or replace the following:

- circuit between stop lamp relay-1 and fuse block J/B.
- · circuit between fuse block J/B and joint connector B06.
- joint connector B06.

NO >> Replace stop lamp relay-1.

9.CHECK REAR COMBINATION LAMP RH VOLTAGE CIRCUIT

- 1. Disconnect rear combination lamp RH connector.
- 2. Check voltage between rear combination lamp RH connector B45 terminal 1 and ground.

Rear combination lamp RH		Ground	Condition	Voltage	
Connector	Terminal	Ground	Condition	(Approx.)	
D45 1			Brake pedal depressed	Battery voltage	
B45	ľ	_	Brake pedal released	0V	

Is the inspection result normal?

YES >> GO TO 10

NO >> Repair circuit between joint connector B06 and rear combination lamp RH.

10. CHECK REAR COMBINATION LAMP RH GROUND CIRCUIT

Check continuity between rear combination lamp RH connector B45 terminal 5 and ground.

Rear combination lamp RH		Ground	Continuity	
Connector	Terminal	Giodila	Continuity	
B45	5	_	Yes	

Is the inspection result normal?

YES >> Replace rear combination lamp RH. Refer to EXL-214, "Removal and Installation".

NO >> Repair rear combination lamp RH ground circuit.

11. CHECK HIGH MOUNTED STOP LAMP VOLTAGE CIRCUIT

- 1. Disconnect high mounted stop lamp connector B37 (sedan) or B401 (coupe).
- Check voltage between high mounted stop lamp connector B37 (sedan) or B401 (coupe) terminal 1 and ground.

High mounted	l stop lamp	Ground	Condition	Voltage
Connector	Terminal	Ground Condition		(Approx.)
B37 (sedan)	1		Brake pedal depressed	Battery voltage
B401 (coupe)	·	_	Brake pedal released	0V

Is the inspection result normal?

YES >> GO TO 12

NO >> Repair or replace the following:

- · circuit between joint connector B06 and high mounted stop lamp.
- joint connector B08 (sedan with rear view monitor).

12. CHECK HIGH MOUNTED STOP LAMP GROUND CIRCUIT

Check continuity between high mounted stop lamp connector B37 (sedan without rear spoiler), B37 (sedan with rear spoiler) or B401 (coupe) terminal 2 and ground.

High mounted	l stop lamp	Ground	Continuity	
Connector	Terminal	Ground	Continuity	
B37 (sedan)	2		Yes	
B401 (coupe)	2	_	res	

Is the inspection result normal?

YES >> Replace high mounted stop lamp. Refer to EXL-212, "Removal and Installation".

NO >> Repair high mounted stop lamp ground circuit.

Component Inspection (Stop Lamp Switch)

1. CHECK STOP LAMP SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect stop lamp switch connector.
- 3. Check continuity between stop lamp switch terminals.

Stop lamp switch terminals	Condition	Continuity
1 – 2	Brake pedal depressed.	Yes
1 – 2	Brake pedal released.	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace stop lamp switch.

Component Inspection (Stop Lamp Relay)

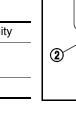
NOTE:

Stop lamp relay-1 and stop lamp relay-2 are located in the IPDM E/R.

1. CHECK STOP LAMP RELAY

- 1. Turn ignition switch OFF.
- 2. Disconnect stop lamp relay connector.
- Apply battery voltage to stop lamp relay terminal 1 and ground to terminal 2.
- 4. Check continuity between stop lamp relay terminals 3 and 5.

Stop lamp relay terminals	Condition	Continuity
3 – 5	Battery voltage applied to terminal 1 and ground to terminal 2	Yes
	Voltage and ground removed	No
1 0 1 0 10	10	



3 3 3 3 5 2 1 1 SCIAL245E

Is the inspection result normal?

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STOP LAMP

< DTC/CIRCUIT DIAGNOSIS >

YES >> Inspection End.

NO >> Replace stop lamp relay.

OPTICAL SENSOR

< DTC/CIRCUIT DIAGNOSIS >

OPTICAL SENSOR

Description INFOID:000000006390328

The optical sensor converts the outside brightness (lux) to voltage and transmits the optical sensor signal to the BCM.

Component Function Check

INFOID:0000000006390329

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1. CHECK OPTICAL SENSOR SIGNAL BY CONSULT

(P)CONSULT

- 1. Turn the ignition switch ON.
- Select "OPTICAL SENSOR" of BCM (HEAD LAMP) DATA MONITOR item.
- 3. Turn the lighting switch to AUTO.
- 4. With the optical sensor illuminating, check the monitor status.

Monitor item	Condition	Voltage
OPTICAL SENSOR	When illuminating	3.1V or more *
OF HOAL SENSOR	When shutting off light	0.6V or less

^{*:} Illuminates the optical sensor. The value may be less than the standard value if brightness is weak.

Is the item status normal?

YES >> Optical sensor is normal.

NO >> Refer to EXL-55, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006390330

Regarding Wiring Diagram information, refer to <u>EXL-119</u>, "Wiring Diagram - Coupe" or <u>EXL-125</u>, "Wiring Diagram - Sedan".

1. CHECK OPTICAL SENSOR POWER SUPPLY INPUT

- 1. Turn the ignition switch ON.
- 2. Turn the lighting switch to AUTO.
- 3. Check the voltage between the optical sensor harness connector and ground.

(+)		(-)	Voltage
Connector	Terminal	(-)	voltage
M66	1	Ground	5V

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Is the voltage reading as specified?

YES >> GO TO 2 NO >> GO TO 4

2.CHECK OPTICAL SENSOR GROUND INPUT

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OPTICAL SENSOR

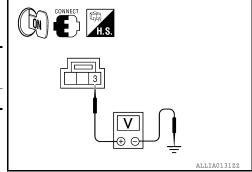
< DTC/CIRCUIT DIAGNOSIS >

Check the voltage between the optical sensor harness connector and ground.

((+) (_) Voltac		Voltage	
Connector	Terminal	()	voltage	
M66	3	Ground	Less than 0.2V	

Is the voltage reading as specified?

YES >> GO TO 3 NO >> GO TO 6

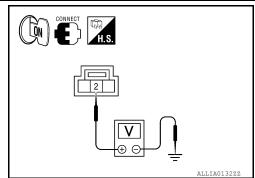


3. CHECK OPTICAL SENSOR SIGNAL OUTPUT

With the optical sensor illuminating, check voltage between the optical sensor harness connector and ground.

(-	(+)		Condition	Voltage	
Connector	Terminal	(-)	Condition	voitage	
M66	2	Ground	When illuminating	3.1V or more *	
IVIOO	2	Oround	When shutting off light	0.6V or less	

^{*:} Illuminate the optical sensor. The value may be less than the standard if brightness is weak.



Is the voltage reading as specified?

YES >> GO TO 7

NO >> Replace the optical sensor.

4. CHECK OPTICAL SENSOR POWER SUPPLY FOR OPEN CIRCUIT

- Turn the ignition switch OFF.
- Disconnect the optical sensor connector and BCM connector M18.
- Check continuity between the optical sensor harness connector (A) and the BCM harness connector (B).

A			В		
Connector	Terminal	Connector	Terminal	Continuity	
M66	1	M18	46	Yes	

Does continuity exist?

YES >> GO TO 5

NO >> Repair the harness or connector.

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5. CHECK OPTICAL SENSOR POWER SUPPLY FOR SHORT CIRCUIT

Check the continuity between the optical sensor harness connector and the ground.

Connector	Terminal	_	Continuity
M66	1	Ground	No

Does continuity exist?

YES >> Repair the harness or connector.

NO >> Replace BCM. Refer to <u>BCS-92, "Removal and Installation"</u>

6. CHECK OPTICAL SENSOR GROUND FOR OPEN CIRCUIT

- 1. Turn the ignition switch OFF.
- Disconnect the optical sensor connector and BCM connector M18.

OPTICAL SENSOR

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between the optical sensor harness connector (A) and the BCM harness connector (B).

А		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M66	3	M18	45	Yes

Does continuity exist?

YES >> Replace BCM. Refer to <u>BCS-92</u>, "Removal and Installation".

NO >> Repair the harness or connector.

7.check optical sensor signal for open circuit

- 1. Turn the ignition switch OFF.
- 2. Disconnect the optical sensor connector and BCM connector M18.
- 3. Check continuity between the optical sensor harness connector (A) and the BCM harness connector (B).

A		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M66	2	M18	21	Yes

Does continuity exist?

YES >> GO TO 8

NO >> Repair the harness or connector.

8.CHECK OPTICAL SENSOR SIGNAL FOR SHORT CIRCUIT

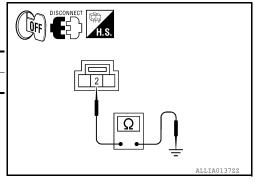
Check the continuity between the optical sensor harness connector and ground.

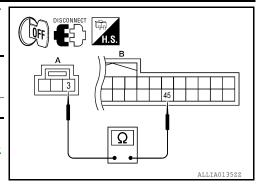
-	Connector	Terminal	_	Continuity
_	M66	2	Ground	No

Does continuity exist?

YES >> Repair the harness or connector.

NO >> Replace BCM. Refer to <u>BCS-92</u>, "Removal and Installation".





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HAZARD SWITCH

Component Function Check

INFOID:0000000006918060

1. CHECK HAZARD SWITCH SIGNAL BY CONSULT

(E)CONSULT DATA MONITOR

- 1. Turn ignition switch ON.
- 2. Select "HAZARD SW" of BCM (FLASHER) data monitor item.
- 3. With operating the hazard switch, check the monitor status.

Monitor item	Con	dition	Monitor status
HAZARD SW	Hazard switch	ON	On
HAZAKO SW	Tiazaiu Switch	OFF	Off

Is the measurement normal?

YES >> Hazard switch circuit is normal.

NO >> Refer to EXL-58, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006918061

Regarding Wiring Diagram information, refer to <u>EXL-141</u>, "Wiring <u>Diagram - Coupe"</u> (coupe) or <u>EXL-149</u>, "Wiring <u>Diagram - Sedan"</u> (sedan).

1. CHECK HAZARD SWITCH SIGNAL INPUT

- Turn ignition switch OFF.
- Disconnect hazard switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between hazard switch harness connector and ground.

(+) Hazard switch		(-)	Voltage (Approx.)	
Connector	Terminal			
M54	2	Ground	(V) 15 10 5 0 10ms JPMIA0154GB	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK HAZARD SWITCH SIGNAL OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M19.
- 3. Check continuity between hazard harness connector and BCM harness connector.

Hazar	d switch	В	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M54	2	M19	98	Yes

Is the inspection result normal?

YES >> GO TO 3.

HAZARD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

3. CHECK HAZARD SWITCH SIGNAL SHORT CIRCUIT

Check continuity between hazard switch harness connector and ground.

Hazard	d switch		Continuity	
Connector	Terminal	Ground	Sommery	
M54	2		No	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-92, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK HAZARD SWITCH GROUND OPEN CIRCUIT

Check continuity between hazard switch harness connector and ground.

Hazard	d switch		Continuity		
Connector	Terminal	Ground	Continuity		
M54	1		Yes		

Is the inspection result normal?

YES >> Replace hazard switch. Refer to EXL-217, "Removal and Installation".

NO >> Repair or replace harness.

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
FR WIPER III	Front wiper switch HI	ON
ED WIDED LOW	Other than front wiper switch LO	OFF
FR WIPER LOW	Front wiper switch LO	ON
ED WACHED OW	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
ED WIDED INT	Other than front wiper switch INT	OFF
FR WIPER INT	Front wiper switch INT	ON
ED WIDED STOD	Front wiper is not in STOP position	OFF
FR WIPER STOP	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 6	Wiper intermittent dial position
TUDNI CICNIAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TURN SIGNAL L	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF
TAIL LAWP 5W	Lighting switch 1ST or 2ND	ON
HI BEAM SW	Other than lighting switch HI	OFF
HI BEAIN SW	Lighting switch HI	ON
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF
HEAD LAWF SW T	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
FILAD LAWF SW 2	Lighting switch 2ND	ON
PASSING SW	Other than lighting switch PASS	OFF
FASSING SW	Lighting switch PASS	ON
AUTO LIGHT SW	Other than lighting switch AUTO	OFF
AUTO LIGITI SW	Lighting switch AUTO	ON
FR FOG SW	Front fog lamp switch OFF	OFF
11(100 SW	Front fog lamp switch ON	ON
DOOR SW-DR	Driver door closed	OFF
DOOK SW-DK	Driver door opened	ON
DOOR SW-AS	Passenger door closed	OFF
DOOK SW-AS	Passenger door opened	ON
DOOR SW-RR	Rear RH door closed	OFF
DOOK GW-KK	Rear RH door opened	ON
DOOR SW-RL	Rear LH door closed	OFF
	Rear LH door opened	ON

Monitor Item	Condition	Value/Status	
CDL LOCK CW	Other than power door lock switch LOCK	OFF	
CDL LOCK SW	Power door lock switch LOCK	ON	
CDL LINII OCK SW	Other than power door lock switch UNLOCK	OFF	
CDL UNLOCK SW	Power door lock switch UNLOCK	ON	
KEY CYLLK CW	Other than driver door key cylinder LOCK position	OFF	
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON	
KEY OW LINEON	Other than driver door key cylinder UNLOCK position	OFF	
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON	
LIAZADD CW	When hazard switch is not pressed	OFF	
HAZARD SW	When hazard switch is pressed	ON	
REAR DEF SW	When rear window defogger switch is pressed	ON	
FAN ON SIG	When AUTO switch or fan switch is pressed	ON	
AIR COND SW	When A/C switch is pressed	ON	
TD CANCEL OVA	Trunk lid opener cancel switch OFF	OFF	
TR CANCEL SW	Trunk lid opener cancel switch ON	ON	
TD/DD ODEN OW	Trunk lid opener switch OFF	OFF	
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON	
	Trunk lid closed	OFF	
TRNK/HAT MNTR	Trunk lid opened	ON	
	When LOCK button of Intelligent Key is not pressed	OFF	
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON	
DIVE LINII OOK	When UNLOCK button of Intelligent Key is not pressed	OFF	
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON	
	When TRUNK OPEN button of Intelligent Key is not pressed	OFF	
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON	
DIVE DANIO	When PANIC button of Intelligent Key is not pressed	OFF	
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON	
2/5 24/ 225/	When UNLOCK button of Intelligent Key is not pressed and held	OFF	
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON	
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF	
RRE-WODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON	
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V	
OFFICAL SENSOR	When outside of the vehicle is dark	Close to 0 V	
REQ SW-DR	When driver door request switch is not pressed	OFF	
IVER OAA-DIV	When driver door request switch is pressed	ON	_
REQ SW-AS	When passenger door request switch is not pressed	OFF	
NLQ SVV-AS	When passenger door request switch is pressed	ON	
DEO SW DD/TD	When trunk request switch is not pressed	OFF	
REQ SW-BD/TR	When trunk request switch is pressed	ON	_
DUOLLOVA!	When engine switch (push switch) is not pressed	OFF	
PUSH SW	When engine switch (push switch) is pressed	ON	
ION BLV 5/B	Ignition switch OFF or ACC	OFF	
IGN RLY -F/B	Ignition switch ON	ON	

Monitor Item	Condition	Value/Status
ACC RLY -F/B	Ignition switch OFF	OFF
ACCINET -17B	Ignition switch ACC or ON	ON
CLUTCH SW	When the clutch pedal is not depressed	OFF
CLUTCH 3W	When the clutch pedal is depressed	ON
BRAKE SW 1	When the brake pedal is not depressed	ON
BRAKE SW I	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
DETE/CANCL SW	When selector lever is in any position other than P	ON
CET DNI/NI CVAI	When selector lever is in any position other than P or N	OFF
SFT PN/N SW	When selector lever is in P or N position	ON
C/I LOCK	Electronic steering column lock LOCK status	OFF
S/L -LOCK	Electronic steering column lock UNLOCK status	ON
C/L LINIL OCK	Electronic steering column lock UNLOCK status	OFF
S/L -UNLOCK	Electronic steering column lock LOCK status	ON
C/L DELAY E/D	Ignition switch OFF or ACC	OFF
S/L RELAY-F/B	Ignition switch ON	ON
LINILIZ CENI DD	Driver door UNLOCK status	OFF
UNLK SEN-DR	Driver door LOCK status	ON
DUOLLOW IDDM	When engine switch (push switch) is not pressed	OFF
PUSH SW -IPDM	When engine switch (push switch) is pressed	ON
ION DIVA E/D	Ignition switch OFF or ACC	OFF
IGN RLY1 F/B	Ignition switch ON	ON
DETE CVA IDDAA	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
OFT DN IDDM	When selector lever is in any position other than P or N	OFF
SFT PN -IPDM	When selector lever is in P or N position	ON
OFT D. MET	When selector lever is in any position other than P	OFF
SFT P -MET	When selector lever is in P position	ON
	When selector lever is in any position other than N	OFF
SFT N -MET	When selector lever is in N position	ON
	Engine stopped	STOP
	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
	Electronic steering column lock LOCK status	OFF
S/L LOCK-IPDM	Electronic steering column lock UNLOCK status	ON
	Electronic steering column lock UNLOCK status	OFF
S/L UNLCK-IPDM	Electronic steering column lock LOCK status	ON
	Ignition switch OFF or ACC	OFF
S/L RELAY-REQ	Ignition switch ON	ON
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
	Driver door LOCK status	LOCK
DR DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
AS DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
ID OK ELAC	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
DDMT ENC STAT	When the engine start is prohibited	RESET
PRMT ENG STAT	When the engine start is permitted	SET
KEY CW CLOT	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID DECOT EL 4	When ID of front LH tire transmitter is registered	DONE
ID REGST FL1	When ID of front LH tire transmitter is not registered	YET
ID DECOT ED4	When ID of front RH tire transmitter is registered	DONE
ID REGST FR1	When ID of front RH tire transmitter is not registered	YET
ID DECCT DD4	When ID of rear RH tire transmitter is registered	DONE
ID REGST RR1	When ID of rear RH tire transmitter is not registered	YET
ID DECCT DL1	When ID of rear LH tire transmitter is registered	DONE
ID REGST RL1	When ID of rear LH tire transmitter is not registered	YET
VAVA DAUNIO L'ANAD	Tire pressure indicator OFF	OFF
WARNING LAMP	Tire pressure indicator ON	ON

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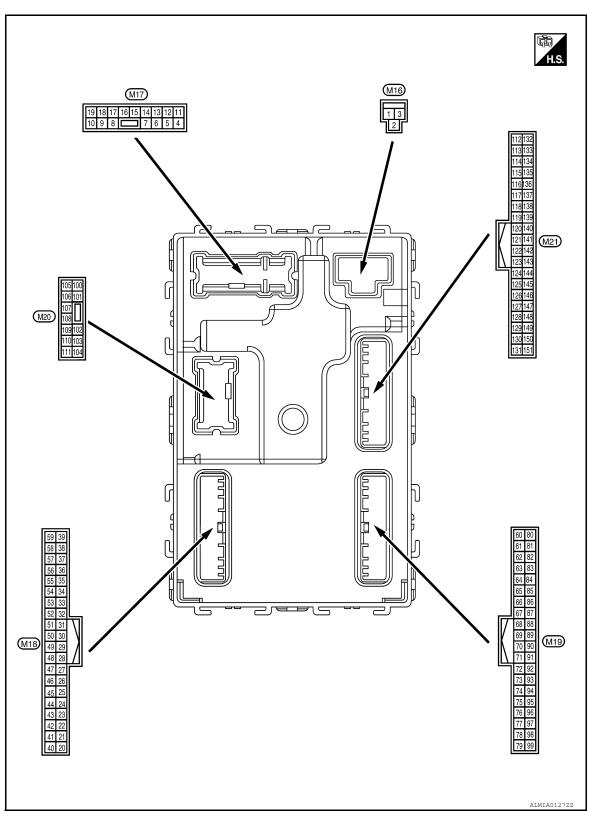
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Terminal Layout



Physical Values

	inal No. e color)	Description			Condition	Value	
(+)	(-)	Signal name	Input/ Output	iiiput		(Approx.)	
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage	
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage	
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage	
4	Cround	Interior room lamp	Output	After passing the ir er operation time	nterior room lamp battery sav-	0V	
(P/W)	Ground	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage	
5	Ground	Front door RH UN-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage	
(G/Y)	Giouna	LOCK	Output	THUIL GOOF KIT	Other than UNLOCK (actuator is not activated)	0V	
7	Ground	Step lamp	Output	Step lamp	ON	0V	
(R/W)	Giound	Otep lattip	Output	Step lattip	OFF	Battery voltage	
8	Cround	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage	
(V)	Ground	All doors LOCK	Output	All doors	Other than LOCK (actuator is not activated)	0V	
9	Cround	Front door LH UN-	Outout	Front door III	UNLOCK (actuator is activated)	Battery voltage	
(G)	Ground	LOCK	Output	Front door LH	Other than UNLOCK (actuator is not activated)	0V	
10 ¹	Ground	Rear door RH and rear door LH UN-	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage	
(G/Y)	Giouna	LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V	
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	
13 (B)	Ground	Ground	_	Ignition switch ON		0V	
					OFF	0V	
14 ¹		Engine switch (push				NOTE: When the illumination brightening/dimming level is in the neutral position	
(O/W)	Ground		Tail lamp	ON	10 0 2 ms		
						JSNIA0010GB	

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
					OFF	0V NOTE:
14 ⁸ (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	When the illumination brightening/dimming level is in the neutral position (V) 10 0 2 ms
4.5					OFF	Battery voltage
15 (Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	ACC	0V
					Turn signal switch OFF	0V
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 PKID0926E 6.5 V
					Turn signal switch OFF	0V
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19		Room lamp timer		Interior room	OFF	Battery voltage
(Y)	Ground	control	Output	lamp	ON	0V
21	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V
(P/B)	Oround	Optical sensor signal	Прис	ON	When outside of the vehi- cle is dark	Close to 0V
22 ²	Ground	Clutch interlock	Input	Clutch interlock	OFF (clutch pedal is not depressed)	0V
(R/Y)	Cround	switch	прис	switch	ON (clutch pedal is de- pressed)	Battery voltage
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V
(O/L)	Cround	Ctop is inposition 2	mput	Stop tamp switch	ON (brake pedal is depressed)	Battery voltage

Terminal No. (Wire color)		Description				Value	
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
27 (G/W)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	
					UNLOCK status	0V	
29	0	Kov olet switch	leas: 1	When Intelligent K	ey is inserted into key slot	Battery voltage	
(Y)	Ground	Key slot switch	Input	When Intelligent K	ey is not inserted into key slot	0V	
30	C=====================================	ACC foodbasts sizes 1	4- بمجا	lanition outlet	OFF	0	
(V/Y)	Ground	ACC feedback signal	Input	Ignition switch	ACC or ON	Battery voltage	
31	Ground	Rear window defog-	Input	Rear window de-	OFF	0V	
(G)	Giound	ger feedback signal	πραι	fogger switch	ON	Battery voltage	
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes) ON (when front door RH opens)	(V) 15 10 5 0 10 ms 11.8 V	
33	Ground	Compressor ON sig-	Input	A/C switch	OFF	9V - 12V	
(SB)	Ground	nal	прис	A C SWILCH	ON	OV	
34 ³	0	Front door lock as-	ا مصا	Front door lock	OFF (neutral)	Battery voltage	
(L/R)	Ground	sembly LH (key cylin- der switch) (unlock)	Input	assembly LH (key cylinder switch)	ON (unlock)	0V	
36 ³	0		le e f	Door lock/unlock	Lock	Battery voltage	
(GR)	Ground	Lock switch signal	Input	switch	Unlock	0V	
37 (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V	
					ON	0V	
38		Rear window defog-		Rear window de-	OFF	Battery voltage	
(GR/ W)	Ground	ger ON signal	Input	fogger switch	ON	0V	
39 ³ (GR/	Ground	Unlock switch signal	Input	Door lock/unlock	Unlock	Battery voltage	
(GR/ R)	Ciodila	Sincer owner digital	put	switch	Lock	0V	

	inal No. e color)	Description			Condition	Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
40 ⁴ (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 10 10 ms JPMIA0013GB 10.2V	
				Ignition switch OFF or ACC		0V	
41 (W)	Ground	Engine switch (push switch) illumination	Output	Engine switch (push switch) illumination	OFF	5.5V 0V	
42				LOCK indicator	ON	0V	
(R)	Ground	LOCK indicator lamp	Output	lamp	OFF	Battery voltage	
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V	
46 (V/W)	Ground	Receiver & sensor power supply output	Output	Ignition switch	OFF ACC or ON	0V 5.0V	
47 (G/O)	Ground	Tire pressure receiver signal	Input/ Output	Ignition switch ON	Standby state When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
48 (R/G)	Ground	Selector lever P/N position signal	Input	Selector lever	P or N position Except P and N positions	12.0V 0V	
					ON	0V	
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 1 JPMIA0014GB	
			 		OFF	11.3V Battery voltage	
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Terminal No.		Description				Value
	e color)	Signal name	Input/	Condition		Value (Approx.)
(+)	(-)		Output		All quitab OFF	0)/
					All switch OFF Lighting switch 1ST	0V
					Lighting switch high-beam	(V)
50		Combination switch		Combination switch	Lighting switch 2ND	15
(LG/ B)	Ground	OUTPUT 5	Output	(Wiper intermit-	Lighting Switch 2142	5 0
Б)				tent dial 4)		
					Turn signal switch RH	2 ms JPMIA0031GB
						10.7V
					All switch OFF (Wiper intermittent dial 4)	0V
					Front wiper switch HI	
					(Wiper intermittent dial 4)	(<u>V</u>)
51	Ground	Combination switch	Output	Combination	Any of the conditions below	15
(L/W)		OUTPUT 1		switch	with all switch OFFWiper intermittent dial 1	5 0
					Wiper intermittent dial 2Wiper intermittent dial 3	2 ms
					 Wiper intermittent dial 6 	JPMIA0032GB
					Wiper intermittent dial 7	10.7V
					All switch OFF (Wiper intermittent dial 4)	0V
					Front washer switch ON	
					(Wiper intermittent dial 4)	(V)
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below	10
(- /					with all switch OFF	0
					Wiper intermittent dial 1Wiper intermittent dial 5	2 ms
					Wiper intermittent dial 6	JPMIA0033GB 10.7V
					All switch OFF	0V
					Front wiper switch INT	
				Combination	Front wiper switch LO	(V)
53 (LG/	Ground	Combination switch	Output	switch		10
R)		OUTPUT 3		(Wiper intermit- tent dial 4)		0
				,	Lighting switch AUTO	2 ms
						JPMIA0034GB
-					All switch OFF	0V
		Combination switch		Combination	Front fog lamp switch ON	
					Lighting switch 2ND	(V) 15
54	Ground		Output	switch	Lighting switch flash-to-	10
(G/Y)	Cround	OUTPUT 4	Carput	(Wiper intermit- tent dial 4)	pass	Ō
				tent diai 4)	Time signal switch 111	2 ms
					Turn signal switch LH	JPMIA0035GB
55					ON	10.7V Battery voltage
(BR/	Ground	Front blower monitor	Input	Front blower mo- tor switch		
W)				tor switch	OFF	0V

	inal No. e color)	Description		O a madifica m		Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
56 ³	0	Front door lock as-	المسيط	Front door lock	OFF (neutral)	Battery voltage
(L/B)	Ground	sembly LH (key cylin- der switch) (lock)	Input	assembly LH (key cylinder switch)	ON (lock)	0V
57 (W)	Ground	Tire pressure warn- ing check switch	Input		_	Battery voltage
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (front door LH OPEN)	0V
59 (G/R)	Ground	Rear window defog- ger relay	Output	Rear window de- fogger	Active Not activated	Battery voltage 0V
60 (B/B)	Ground	Front console anten-	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(B/R)		na 2 (-)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
61	Ground	Center console an-	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(W/R)	Signific	tenna 2 (+)	Surput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

Terminal No. (Wire color)		Description				Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
62		Front outside handle		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(B/Y)	Ground	RH antenna (-)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
63	Ground	Front outside handle	Output	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(LG)	Glound	RH antenna (+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
64	Ground	Front outside handle	Output	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(V)		LH antenna (-)	- 3.54	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

	inal No.	Description				Value	
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)	
65	Ground	Front outside handle	Output	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB	
(P)		LH antenna (+)		ed with ignition switch OFF	itch is operat- with ignition	(V) 15 10 5 0 JMKIA0063GB	
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage	
71	Ground		Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
(L/O)			Output	When operating either button on Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	^
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0041GB	С
						1.4V	D
75		Combination switch		Combination	Front fog lamp switch ON	(V) 15 10 5	Е
(R/Y)	Ground	INPUT 5	Input	switch	(Wiper intermittent dial 4)	2 ms	F
						JPMIA0037GB 1.3V	G
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms	Н
						1.3V	

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	nal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
76 (D)()	Ground	und Combination switch Input Combination switch		Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	
(R/G)		INPUT 3	s s		Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB
77	Ground	Engine switch (push	Input	Engine switch	Pressed	0V
(BR)	Oround	switch)		(push switch)	Not pressed	Battery voltage
78 (P)	Ground	CAN-L	Input/ Output		_	_
79 (L)	Ground	CAN-H	Input/ Output		_	_
					OFF	0V
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s
					ON	6.5V Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description				Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	Battery voltage 0V
83 (L)	Ground	ACC relay control	Output	Ignition switch	OFF ACC or ON	0V Battery voltage
84 ⁵ (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage
85 (L/O)	Ground	Electronic steering column lock condition No. 1	Input	Electronic steer- ing column lock	Lock status Unlock status	0V Battery voltage
86 (G/R)	Ground	Electronic steering column lock condition No. 2	Input	Electronic steer- ing column lock	Lock status Unlock status	Battery voltage 0V
87 ⁵ (G/B)	Ground	Selector lever P position switch	Input	Selector lever	P position Any position other than P	0V Battery voltage
88 (P/L)	Ground	Front door RH request switch	Input	Front door RH request switch	ON (pressed) OFF (not pressed)	(V) 15 10 10 ms JPMIA0016GB 1.0V
89 (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	ON (pressed) OFF (not pressed)	0V (V) 15 10 10 ms JPMIA0016GB 1.0V
90 (Y)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC	0V Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage
94 (G/Y)	Ground	Electronic steering column lock power supply	Output	Ignition switch	OFF or ACC	Battery voltage 0V

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	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Turn signal switch LH	(V) 15 10 0 2 ms JPMIA0037GB
95 (R/W)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 2 ms JPMIA0036GB
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB

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	inal No.	Description				Value	Δ
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	C
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0	E
96 (P/B)	Ground	Combination switch INPUT 4	Input	Combination switch		1.3V	
					Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0	ŀ
						JPMIA0036GB 1.3V	I
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms	k
						JPMIA0039GB 1.3V	E

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	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
	.,		·		All switch OFF	(V) 15 10 2 ms JPMIA0041GB 1.4V
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB
97 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
					Pressed	0 V
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 10 10 ms JPMIA0012GB 1.1V

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	inal No.	Description				Value				
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)				
					LOCK status	Battery voltage				
99 (L/Y)	Ground	Electronic steering column lock unit communication	Input/ Output	Electronic steer-ing column lock	LOCK or UNLOCK	(V) 15 10 50 50 ms JMKIA0066GB				
									For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0V				
103	Cround	Trunk lid oponing	Output		Open (trunk lid opener actuator is activated)	Battery voltage				
(V)	Ground	Trunk lid opening	Output	Trunk lid	Close (trunk lid opener actuator is not activated)	0V				
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V				
(V/W)	Giodila	Trank room lamp	Output	Trunk room lamp	OFF	Battery voltage				
114	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0062GB				
(B)	Ground	1 (-)	Output	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB				

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	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
115	Capital	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0062GB
(W)	Ground	1 (+)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
118	Ground	Rear bumper anten-	Output	When the trunk lid request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 1 1 s JMKIA0062GB
(L/O)	Siddina	na (-)	Guipui	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
119 (BR/	Ground	Rear bumper anten-	Output	When the trunk lid request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
W)	Glound	na (+)	Cutput	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	inal No.	Description				Value							
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)							
127		Ignition relay (IPDM	_		OFF or ACC	Battery voltage							
(BR/ W)	Ground	E/R) control	Output	Ignition switch	ON	0V							
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 JPMIA0011GB 11.8V							
					ON (trunk is open)	OV							
				Ignition switch	When the clutch pedal is depressed	Battery voltage							
				OFF (M/T vehi- cle)	When the clutch pedal is not depressed	ov							
132 (R)	Ground	Starter motor relay control	C	Output	Output	Output	Output	Output	Iç	Ignition switch		When selector lever is in P or N position and the brake is depressed	Battery voltage
				ON (other than M/ T vehicle)	When selector lever is in P or N position and the brake is not depressed	OV							
					ON (pressed)	0V							
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 JPMIA0016GB 1.0V							
144		Request switch buzz-		Request switch	Sounding	0V							
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage							
147	Craunal	Trunk lid opener	lnn:-4	Trunk lid opener	Pressed	0V							
(L/R)	Ground	switch	Input	switch	Not pressed	Battery voltage							
148 ¹ (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 JPMIA0011GB 11.8V							
					ON (when rear door RH opens)	ov							

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	inal No.	Description				Value
(Wire color)		Signal name Input/ Output		Condition		(Approx.)
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
					ON (when rear door LH opens)	0V

- 1: Sedan only
- 2: M/T only
- 3: With LH front window anti-pinch
- 4: With LH and RH front window anti-pinch.
- 5: CVT only
- 6: With auto lights
- 7: With low tire pressure warning system
- 8: Coupe only

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC
B2557: VEHICLE SPEED	Inhibit electronic steering column lock	When normal vehicle speed signals have been received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal
B2562: LO VOLTAGE	Inhibit engine cranking Inhibit electronic steering column lock	100 ms after the power supply voltage increases to more than 8.8 V
B2601: SHIFT POSITION	Inhibit electronic steering column lock	 500 ms after the following signal reception status becomes consistent Selector lever P position switch signal P range signal (CAN)
B2602: SHIFT POSITION	Inhibit electronic steering column lock	5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 /h or more

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Display contents of CONSULT	Fail-safe	Cancellation
B2603: SHIFT POSI STATUS	Inhibit electronic steering column lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is fulfilled • Status 1 - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is ful- filled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/transmission switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - transmission switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When the following electronic steering column lock conditions agree BCM electronic steering column lock control status Electronic steering column lock condition No. 1 signal status Electronic steering column lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	 When any of the following conditions is fulfilled Electronic steering column lock unit status signal (CAN) is received normally The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal

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Display contents of CONSULT	Fail-safe	Cancellation
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the electronic steering column lock unit power sup- ply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled • Status 1 - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: OFF (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When BCM transmits the LOCK request signal to the steering lock unit and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No 1 signal: LOCK (0V) • Steering condition No 2 signal: LOCK (Battery voltage)

DTC Inspection Priority Chart

INFOID:0000000006918052

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING

Priority	DTC	
	B2013: ID DISCORD BCM-S/L	
	B2014: CHAIN OF S/L-BCM	
	B2553: IGNITION RELAY	
	B2555: STOP LAMP B2556: PUSH-BTN IGN SW	
	B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED	
	B2560: STARTER CONT RELAY	
	B2601: SHIFT POSITION	
	B2602: SHIFT POSITION	
	B2603: SHIFT POSI STATUS	
	• B2604: PNP SW	
	B2605: PNP SW B2606: S/L RELAY	
	B2607: S/L RELAY	
	B2608: STARTER RELAY	
	B2609: S/L STATUS	
	B260A: IGNITION RELAY	
	B260B: STEERING LOCK UNIT	
4	B260C: STEERING LOCK UNIT B260D: STEERING UNIT B260D: STEERING UNIT B260D: STEERING UNIT B260	
	B260D: STEERING LOCK UNIT B260F: ENG STATE SIG LOST	
	B2611: ACC RELAY	
	• B2612: S/L STATUS	
	B2614: ACC RELAY CIRC	
	B2615: BLOWER RELAY CIRC	
	B2616: IGN RELAY CIRC	
	B2617: STARTER RELAY CIRC B2610: BCM B2610: BCM	
	B2618: BCM B2619: BCM	
	B261A: PUSH-BTN IGN SW	
	B261E: VEHICLE TYPE	
	B26E1: ENG STATE NO RECIV	
	B26E8: CLUTCH SW	
	B26E9: S/L STATUS B26EA KEY BEOLOTE ATION	
	B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR	
	U0415: VEHICLE SPEED SIG	
	C1704: LOW PRESSURE FL	
	C1704. LOW PRESSURE FE C1705: LOW PRESSURE FR	
	C1706: LOW PRESSURE RR	-
	C1707: LOW PRESSURE RL	
	• C1708: [NO DATA] FL	
	• C1709: [NO DATA] FR	-
	• C1710: [NO DATA] RR	
	C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL	
	C1712: [CHECKSUM ERR] FE C1713: [CHECKSUM ERR] FR	
	C1714: [CHECKSUM ERR] RR	
	C1715: [CHECKSUM ERR] RL	
5	C1716: [PRESSDATA ERR] FL	
	C1717: [PRESSDATA ERR] FR	
	C1718: [PRESSDATA ERR] RR	
	C1719: [PRESSDATA ERR] RL C4720: [CODE ERR] EL	
	C1720: [CODE ERR] FL C1721: [CODE ERR] FR	
	• C1721: [CODE ERR] FR • C1722: [CODE ERR] RR	
	• C1723: [CODE ERR] RL	
	C1724: [BATT VOLT LOW] FL	
	C1725: [BATT VOLT LOW] FR	
	C1726: [BATT VOLT LOW] RR	
	C1727: [BATT VOLT LOW] RL C4774: CONTROL LIMIT.	
	C1734: CONTROL UNIT	
6	B2622: INSIDE ANTENNA	
	B2623: INSIDE ANTENNA	

< ECU DIAGNOSIS INFORMATION >

DTC Index

NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1
 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter
 remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch
 OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-32
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-33
U0415: VEHICLE SPEED SIG	_	_	_	BCS-34
B2013: ID DISCORD BCM-S/L	×	_	_	SEC-36 (Coupe), SEC-250 (Sedan)
B2014: CHAIN OF S/L-BCM	×	_	_	SEC-37 (Coupe), SEC-251 (Sedan)
B2190: NATS ANTENNA AMP	×	_	_	SEC-65 (Coupe), SEC-281 (Sedan)
B2191: DIFFERENCE OF KEY	×	_	_	SEC-69 (Coupe), SEC-285 (Sedan)
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-70 (Coupe), SEC-286 (Sedan)
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-71 (Coupe), SEC-287 (Sedan)
B2195: ANTI-SCANNING	_	_	_	<u>SEC-72</u>
B2553: IGNITION RELAY	_	_	_	PCS-59
B2555: STOP LAMP	_	_	_	SEC-73 (Coupe), SEC-289 (Sedan)
B2556: PUSH-BTN IGN SW	_	×	_	SEC-78 (Coupe), SEC-294 (Sedan)
B2557: VEHICLE SPEED	×	×	_	SEC-80 (Coupe), SEC-296 (Sedan)
B2560: STARTER CONT RELAY	×	×	_	SEC-81 (Coupe), SEC-297 (Sedan)
B2562: LOW VOLTAGE	_	_	_	BCS-35
B2601: SHIFT POSITION	×	×	_	SEC-82 (Coupe), SEC-298 (Sedan)
B2602: SHIFT POSITION	×	×	_	SEC-86 (Coupe), SEC-302 (Sedan)
B2603: SHIFT POSI STATUS	×	×	_	SEC-89 (Coupe), SEC-305 (Sedan)
B2604: PNP SW	×	×	_	SEC-92 (Coupe), SEC-308 (Sedan)
B2605: PNP SW	×	×	_	SEC-94 (Coupe), SEC-310 (Sedan)
B2606: S/L RELAY	×	×	_	SEC-96 (Coupe), SEC-312 (Sedan)

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2607: S/L RELAY	×	×	_	SEC-97 (Coupe), SEC-313 (Sedan)
B2608: STARTER RELAY	×	×	_	SEC-99 (Coupe), SEC-315 (Sedan)
B2609: S/L STATUS	×	×	_	SEC-101 (Coupe), SEC-317 (Sedan)
B260A: IGNITION RELAY	×	×	_	PCS-61
B260B: STEERING LOCK UNIT	_	×	_	SEC-106 (Coupe), SEC-322 (Sedan)
B260C: STEERING LOCK UNIT	_	×	_	SEC-107 (Coupe), SEC-323 (Sedan)
B260D: STEERING LOCK UNIT	_	×	_	SEC-108 (Coupe), SEC-324 (Sedan)
B260F: ENG STATE SIG LOST	×	×	_	<u>SEC-109</u> (Coupe), <u>SEC-325</u> (Sedan)
B2611: ACC RELAY	_	_	_	PCS-62
B2612: S/L STATUS	×	×	_	<u>SEC-110</u> (Coupe), <u>SEC-331</u> (Sedan)
B2614: ACC RELAY CIRC	_	×	_	PCS-64
B2615: BLOWER RELAY CIRC	_	×	_	PCS-67
B2616: IGN RELAY CIRC	_	×	_	PCS-70
B2617: STARTER RELAY CIRC	×	×	_	SEC-115 (Coupe), SEC-336 (Sedan)
B2618: BCM	×	×	_	PCS-73
B2619: BCM	×	×	_	SEC-117 (Coupe), SEC-338 (Sedan)
B261A: PUSH-BTN IGN SW	_	×	_	SEC-118 (Coupe), SEC-339 (Sedan)
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-121
B2622: INSIDE ANTENNA	_	_	_	DLK-279
B2623: INSIDE ANTENNA	_	_	_	DLK-282
B26E1: ENG STATE NO RES	×	×	_	SEC-326
B26E8: CLUTCH SW	×	×	_	SEC-123
B26E9: S/L STATUS	×	× (Turn ON for 15 seconds)	_	SEC-125
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	_	SEC-126
C1704: LOW PRESSURE FL	_	_	×	<u>WT-8</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-8</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-8</u>
C1707: LOW PRESSURE RL		_	×	<u>WT-8</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-13</u>
C1709: [NO DATA] FR		_	×	<u>WT-13</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-13</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-15</u>

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-15</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-15</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-17</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-17</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-17</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-15</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-15</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-15</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-15</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-15</u>
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-18</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-19</u>

< ECU DIAGNOSIS INFORMATION >

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

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Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	(Condition	Value/Status
RADFAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	0 - 100 %
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAIL OCUD DEC	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST, 2ND, HI or	AUTO (Light is illuminated)	On
HI LO BEO	Lighting switch OFF		Off
HL LO REQ	Lighting switch 2ND HI or AUTO	(Light is illuminated)	On
III III DEO	Lighting switch OFF		Off
HL HI REQ	Lighting switch HI		On
ED FOC DEC	Lighting switch 2ND or	Front fog lamp switch OFF	Off
FR FOG REQ	AUTO (Light is illuminated)	Front fog lamp switch ON	On
		Front wiper switch OFF	STOP
ED WID DEO	Jamitian aviitala ONI	Front wiper switch INT	1LOW
FR WIP REQ	Ignition switch ON	Front wiper switch LO	Low
		Front wiper switch HI	Hi
		Front wiper stop position	STOP P
WIP AUTO STOP	Ignition switch ON Any position other than front w stop position		ACT P
		Front wiper operates normally	Off
WIP PROT	Ignition switch ON		
ION DIVA DEO	Ignition switch OFF or ACC	,	Off
IGN RLY1 -REQ	Ignition switch ON		On
ION DIV	Ignition switch OFF or ACC		Off
IGN RLY	Ignition switch ON		On
DUCULOW/	Release the push-button ignition	switch	Off
PUSH SW	Press the push-button ignition sv	witch	On
	Ignition switch ON	CVT selector lever in any position other than P or N (CVT models)	Off
INTER/NO OW		Release clutch pedal (M/T models)	
INTER/NP SW	Ignition switch ON	CVT selector lever in P or N position (CVT models)	On
	Depress clutch pedal (M/T models)		
ST DLV CONT	Ignition switch ON	Off	
ST RLY CONT	At engine cranking		On
IUDT DIV DEO	Ignition switch ON		Off
IHBT RLY -REQ	At engine cranking		On

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Monitor Item		Value/Status	
	Ignition switch ON		Off
	At engine cranking		ST →INHI
ST/INHI RLY	The status of starter relay or starthe battery voltage malfunction, starter control relay is OFF	UNKWN	
DETENT SW	Ignition switch ON	 Press the selector button with CVT selector lever in P position CVT selector lever in any position other than P 	Off
	Release the CVT selector butto NOTE: The lever is fixed ON for M/T	On	
	None of the conditions below ar	Off	
S/L RLY -REQ	 Open the driver door after the ignition switch is turned OFF (for a few seconds) Press the push-button ignition switch when the steering lock is activated Depress the clutch pedal when the steering lock is activated 		On
	Steering lock is activated		LOCK
S/L STATE	Steering lock is deactivated		UNLK
	[DTC B210A] is detected	UNKWN	
OII D CW	Ignition switch OFF, ACC or eng	gine running	Open
OIL P SW	Ignition switch ON		Close
	Not operated		Off
THFT HRN REQ	Panic alarm is activated Horn is activated with VEHICLE SECURITY (THEFT WARNING) SYSTEM		On
LIODAL OLUDD	Not operated		Off
HORN CHIRP	Door locking with Intelligent Key	y (horn chirp mode)	On

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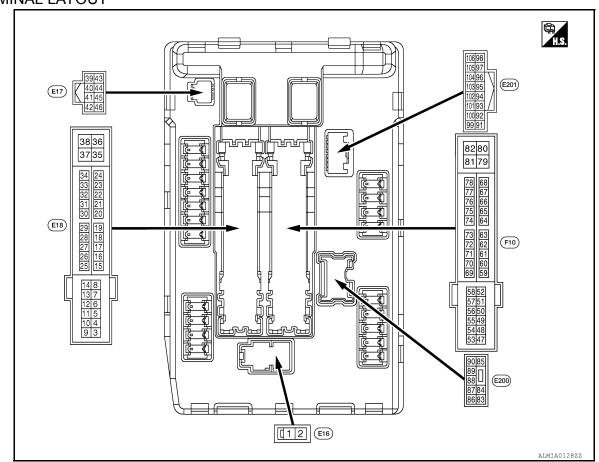
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< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal		Description	ption			Value
(Wire co	olor) _	Signal name	Input/ Output		Condition	(Approx.)
1 (R)	Ground	Battery power supply	Input	Ignition swi	itch OFF	Battery voltage
2 (L)	Ground	Battery power supply	Input	Ignition swi	itch OFF	Battery voltage
4	0	Frant win and O	0	Ignition	Front wiper switch OFF	0 V
(LG)	Ground	Front wiper LO	Output	switch ON	Front wiper switch LO	Battery voltage
5	One week	Frant vines III	0	Ignition	Front wiper switch OFF	0 V
(Y)	Ground	Front wiper HI	Output	switch ON	Front wiper switch HI	Battery voltage
7	Craund	Tail, license plate lamps &	Outout	Ignition	Lighting switch OFF	0 V
(GR)	Ground	interior lamps	Output	switch ON	Lighting switch 1ST	Battery voltage
40				Ignition switch OFF (For a few seconds after turning ignition switch OFF)		0 V
10 (BR)	Ground	ECM relay power supply	Output	(More that	switch ON switch OFF an a few seconds after turn- on switch OFF)	Battery voltage

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Terminal		Description				Value
(Wire co	ior) –	Signal name	Input/ Output		Condition	(Approx.)
				Ignition switch OFF	A few seconds after opening the driver door	Battery voltage
11 (O)	Ground	Electronic steering column lock power supply	Output	Ignition switch LOCK	Press the push-button ig- nition switch	Battery voltage
				Ignition sw	itch ACC or ON	0 V
12 (B)	Ground	Ground	_	Ignition sw	itch ON	0 V
13					tely 1 second or more after ignition switch ON	0 V
(SB)	Ground	Fuel pump power supply	Output		nately 1 second after turning on switch ON unning	Battery voltage
15	Ground	Ignition relay-1 power sup-	Output	Ignition sw	itch OFF	0 V
(W)	Ground	ply	Output	Ignition sw	itch ON	Battery voltage
16				Ignition	Front wiper stop position	0 V
(L/Y)	Ground	Front wiper auto stop	Input	switch ON	Any position other than front wiper stop position	Battery voltage
19	Ground	Ignition relay-1 power sup-	Output	Ignition switch OFF		0 V
(Y)	Ground	ply	Output	Ignition sw	itch ON	Battery voltage
20 (L)	Ground	Ambient sensor ground	_	Ignition switch ON		0V
21 (LG)	Ground	Ambient sensor	_	Ignition switch ON		5V
22 (W/R)	Ground	Refrigerant pressure sensor ground	_	Ignition sw	itch ON	0V
23 (B/R)	Ground	Refrigerant pressure sensor	_	Both A/C	switch ON (READY) C switch and blower motor N (electric compressor oper-	1.0 - 4.0V
24 (BR/W)	Ground	Refrigerant pressure sensor power supply	_	Ignition sw	itch ON	5V
25	Ground	Ignition relay-1 power sup-	Output	Ignition sw	itch OFF	0 V
(GR)	Cround	ply	Cutput	Ignition sw	itch ON	Battery voltage
27	Ground	Ignition relay monitor	Input	Ignition sw	itch OFF or ACC	Battery voltage
(W)	Cround	ignition roley monitor	input	Ignition sw	itch ON	0 V
28	Ground	Push-button ignition	Input	Press the push-button ignition switch		0 V
(SB)	2.34.14	switch	put	Release th	e push-button ignition switch	Battery voltage
30 (R)				CVT mod-	CVT selector lever in any position other than P or N (ignition switch ON)	0 V
(with M/T) 30 (BR) (with CVT)	Ground	Starter relay control	Input	GIS	CVT selector lever P or N (ignition switch ON)	Battery voltage
(WILLI CVI)				M/T mod-	Release the clutch pedal	0 V
				els	Depress the clutch pedal	Battery voltage

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Terminal		Description			0 1111	Value
(Wire col	lor) _	Signal name	Input/ Output		Condition	(Approx.)
32	Ground	Electronic steering column	Input	Electronic s	steering column lock is acti-	0 V
(O/L)		lock unit condition-1		Electronic steering column lock is deactivated		Battery voltage
33	Ground	Electronic steering column	Input	Electronic s vated	steering column lock is acti-	Battery voltage
(G)	Ground	lock unit condition-2	mpat	Electronic s tivated	steering column lock is deac-	0 V
34	Ground	Cooling fan relay-3 control	Input	Ignition swi	tch OFF or ACC	0 V
(O)	Ground	Cooming fair rollay C control	mpat	Ignition swi		0.7 V
35	Ground	Cooling fan motor control	Output		tch OFF or ACC	0 V
(P)		-	· ·	Ignition swi	tch ON	0.7 V
36 (G)	Ground	Battery power supply	Input	Ignition swi		Battery voltage
38	Ground	Cooling fan motor control	Output	_	tch OFF or ACC	0 V
(R/W)		<u> </u>	<u> </u>	Ignition swi	tch ON	0.7 V
39 (P)	_	CAN - L	Input/ Output		_	_
40 (L)	_	CAN - H	Input/ Output	_		_
41 (B)	Ground	Ground	_	Ignition switch ON		0 V
42	Ground	Cooling fan relay-2 control	Input	Ignition switch OFF or ACC		0 V
(SB)	Oloulia	Cooling lan relay-2 control	Прис	Ignition swi	tch ON	0.7 V
					Press the CVT selector button (CVT selector lever P)	Battery voltage
43 (G/B)	Ground	CVT shift selector (Detention switch)	Input	Ignition switch ON	CVT selector lever in any position other than P Release the CVT selector button (CVT selector lever P)	0 V
44 S/W) coupe	Cround	Horn roley central	lanut	The horn is	deactivated	Battery voltage
W) sedan	Ground	Horn relay control	Input	The horn is	activated	0 V
45	Ground	Anti theft horn relay control	Input	The horn is	deactivated	Battery voltage
(L/O)	Giodila	And their norm letay control	mput	The horn is	activated	0 V
				CVT mod-	CVT selector lever in any position other than P or N (ignition switch ON)	0 V
46 (BR)	Ground	Starter relay control	Input	els	CVT selector lever P or N (ignition switch ON)	Battery voltage
				M/T mod-	Release the clutch pedal	0 V
				els	Depress the clutch pedal	Battery voltage
					A/C switch OFF	0 V
48 (W)	Ground	A/C relay power supply	Output	Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage

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Terminal N		Description				Value
(Wire cold	or) _	Signal name	Input/ Output		Condition	(Approx.)
					itch OFF seconds after turning ignition	0 V
49 (V)	Ground	ECM relay power supply	Output			Battery voltage
51	Ground	Ignition relay power supply	Output	Ignition sw	itch OFF	0 V
(SB)	Orodria	ignition relay power supply	Output	Ignition sw	itch ON	Battery voltage
52	Ground	Ignition relay power supply	Output	Ignition sw	itch OFF	0 V
(Y)	Ground	ignition relay power supply	Output	Ignition sw	itch ON	Battery voltage
53 (V)				Ignition sw (For a few s switch OFF	seconds after turning ignition	0 V
(with QR25DE) 53 (G) (with VQ35DE)	Ground	ECM relay power supply	Output	,		Battery voltage
5.4		The Manager		Ignition sw (For a few s switch OFF	seconds after turning ignition	0 V
54 (GR)	Ground	Throttle control motor re- lay power supply	Output			Battery voltage
55 (LG)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage
56	Ground	Ignition relay power supply	Output	Ignition sw	itch OFF	0 V
(R)	Orodria	ignition relay power supply	Output	Ignition sw	itch ON	Battery voltage
57	Ground	Ignition relay power supply	Output	Ignition sw	itch OFF	0 V
(O)	Orodria	ignition relay power suppry	Output	Ignition sw	itch ON	Battery voltage
58	0	la citia a rada a r	0	Ignition sw	itch OFF	0 V
(BR) (with CVT)	Ground	Ignition relay power supply	Output	Ignition sw	itch ON	Battery voltage
69				Ignition sw (For a few s switch OFF	seconds after turning ignition	Battery voltage
(SB)	Ground	ECM relay control	Output	Ignition switch ON Ignition switch OFF (More than a few seconds after turning ignition switch OFF)		0 - 1.5 V
						0 -1.0 V
70 (G)	Ground	Throttle control motor relay control	Output	Ignition switch ON → OFF		↓ Battery voltage ↓ 0 V
				Ignition sw	itch ON	0 - 1.0 V
72 (W)		Transmission on the state of the			CVT selector lever in P or N position	Battery voltage
(with QR25DE) 72 (BR) (with VQ35DE)	Ground	Transmission range switch signal	Input	Ignition switch ON	CVT selector lever in any position other than P or N position	0 V

Termina		Description				Value
(Wire co	olor)	Signal name	Input/ Output		Condition	(Approx.)
74	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V
(L)	Sibulia	ignition rolay power supply	σαιραι	Ignition swi	tch ON	Battery voltage
75	Ground	Oil pressure switch	Input	Ignition	Engine stopped	0 V
(LG)	Siddid	p. 555310 0111011	put	switch ON	Engine running	Battery voltage
				Ignition swi	tch ON	(V) 6 4 2 0 ————————————————————————————————
76 (Y)	Ground	Ground Power generation command signal			on "Active test", "ALTERNA- " of "ENGINE"	(V) 6 4 2 0 *********************************
					on "Active test", "ALTERNA- " of "ENGINE"	3.8 V (V) 6 4 2 0 JPMIA0003G 1.4 V
77 (GR)	Ground	Fuel pump relay control	Output	the ignition the ignition that the ignition is the ignition of	-	0 - 1.0 V
					tely 1 second or more after ignition switch ON	Battery voltage
80 (R)	Ground	Starter motor	Output	At engine of	eranking	Battery voltage
83	Ground	Headlamp LO (RH)	Output	Ignition	Lighting switch OFF	0 V
(R/Y)	Siddid		Juipui	switch ON	Lighting switch 2ND	Battery voltage
84	Ground	Headlamp LO (LH)	Output	Ignition	Lighting switch OFF	0 V
(L)		r - (- ·)	- 15.45	switch ON	Lighting switch 2ND	Battery voltage
86 (W/R)	Ground	Front fog lamp (RH) (If equipped)	Output	Lighting switch 2ND	Front fog lamp switch ON Front fog lamp switch OFF	Battery voltage 0 V
87		Front fog lamp (LH)		Lighting	Front fog lamp switch ON	Battery voltage
(L/Y)	Ground	(If equipped)	Output	switch 2ND	Front fog lamp switch OFF	0 V
88 (R/W)	Ground	Washer pump power supply	Output	Ignition swi	tch ON	Battery voltage

< ECU DIAGNOSIS INFORMATION >

Terminal	-	Description				Value
(Wire col	or) 	Signal name	Input/ Output		Condition	(Approx.)
89 (L/W)	Ground	Headlamp HI (RH)	Output	Ignition switch ON	Lighting switch HI lighting switch PASS	Battery voltage
(L/VV)				SWILCH ON	Lighting switch OFF	0 V
90 (G)	Ground	Headlamp HI (LH)	Output	Ignition switch ON	Lighting switch HI Lighting switch PASS	Battery voltage
(G)				SWILCH ON	Lighting switch OFF	0 V
91	Ground	Parking lamp (RH)	Output	Ignition	Lighting switch 1ST	Battery voltage
(LG/R)	Ground	Faiking lamp (IXII)	Output	switch ON	Lighting switch OFF	0 V
92	Ground	Parking lamp (LH)	Output	Ignition	Lighting switch 1ST	Battery voltage
(LG/B)	Ground	Faiking lamp (Lin)	Output	switch ON	Lighting switch OFF	0 V
99 (BR/W)	Ground	Ambient sensor ground	_	Ignition sw	itch ON	0V
100 (SB)	Ground	Ambient sensor	_	Ignition sw	itch ON	5V
101 (O/L)	Ground	Refrigerant pressure sensor ground	_	Ignition sw	itch ON	0V
102 (R/B)	Ground	Refrigerant pressure sensor	_	Both A/C	switch ON (READY) C switch and blower motor N (electric compressor oper-	1.0 - 4.0V
103 (P)	Ground	Refrigerant pressure sensor power supply	_	Ignition sw	itch ON	5V

Fail Safe

CAN COMMUNICATION CONTROL

When CAN communication with ECM and BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If No CAN Communication Is Available With ECM

Control part	Fail-safe in operation
Cooling fan	 Signals cooling fans ON when the ignition switch is turned ON Signals cooling fans OFF when the ignition switch is turned OFF
A/C compressor	A/C relay OFF
Generator	Outputs the power generation command signal (PWM signal) 0%

If No CAN Communication Is Available With BCM

Control part	Fail-safe in operation
Headlamp	Turns ON the headlamp low relay when the ignition switch is turned ON Turns OFF the headlamp low relay when the ignition switch is turned OFF Headlamp high relay OFF
Parking lampsLicense plate lampsIlluminationTail lamps	 Turns ON the tail lamp relay when the ignition switch is turned ON Turns OFF the tail lamp relay when the ignition switch is turned OFF
Front wiper	 The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed. The wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the INT mode and the front wiper motor is operating.

< ECU DIAGNOSIS INFORMATION >

Control part	Fail-safe in operation
Front fog lamps (if equipped)	Front fog lamp relay OFF
Horn	Horn OFF
Ignition relay	The status just before activation of fail-safe is maintained.
Starter motor	Starter control relay OFF
Electronic steering column lock unit	Steering lock relay OFF

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors the voltage at the contact circuit and excitation coil circuit of the ignition relay inside it.
- IPDM E/R judges the ignition relay error if the voltage differs between the contact circuit and the excitation coil circuit.
- If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

DTC	Ignition switch	Ignition relay	Tail lamp relay
_	ON	ON	_
_	OFF	OFF	_
B2098: IGN RELAY ON	OFF	ON	ON (10 minutes)
B2099: IGN RELAY OFF	ON	OFF	_

NOTE:

The tail lamp turns OFF when the ignition switch is turned ON.

FRONT WIPER CONTROL

IPDM E/R detects front wiper stop position by a front wiper auto stop signal.

When a front wiper auto stop signal is in the conditions listed below, IPDM E/R stops power supply to wiper after repeating a front wiper 10 second activation and 20 second stop five times.

Ignition switch	Front wiper switch	Auto stop signal
ON	OFF	Front wiper stop position signal cannot be input 10 seconds.
	ON	The signal does not change for 10 seconds.

NOTE:

This operation status can be confirmed on the IPDM E/R "Data Monitor" that displays "BLOCK" for the item "WIP PROT" while the wiper is stopped.

STARTER MOTOR PROTECTION FUNCTION

IPDM E/R turns OFF the starter control relay to protect the starter motor when the starter control relay remains active for 90 seconds.

DTC Index

CONSULT display	Fail-safe	TIME	NOTE	Refer to
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	×	CRNT	1 – 39	PCS-17
B2098: IGN RELAY ON	×	CRNT	1 – 39	PCS-18
B2099: IGN RELAY OFF	_	CRNT	1 – 39	PCS-19
B2108: STRG LCK RELAY ON	_	CRNT	1 – 39	SEC-255
B2109: STRG LCK RELAY OFF	_	CRNT	1 – 39	SEC-256
B210A: STRG LCK STATE SW	_	CRNT	1 – 39	<u>SEC-257</u>
B210B: START CONT RLY ON	_	CRNT	1 – 39	SEC-262
B210C: START CONT RLY OFF	_	CRNT	1 – 39	SEC-263

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< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	TIME	NOTE	Refer to
B210D: STARTER RELAY ON	_	CRNT	1 – 39	<u>SEC-264</u>
B210E: STARTER RELAY OFF	_	CRNT	1 – 39	SEC-266
B210F: INTRLCK/TRANSMISSION RANGE SW ON	_	CRNT	1 – 39	SEC-269
B2110: INTRLCK/TRANSMISSION RANGE SW OFF	_	CRNT	1 – 39	SEC-275

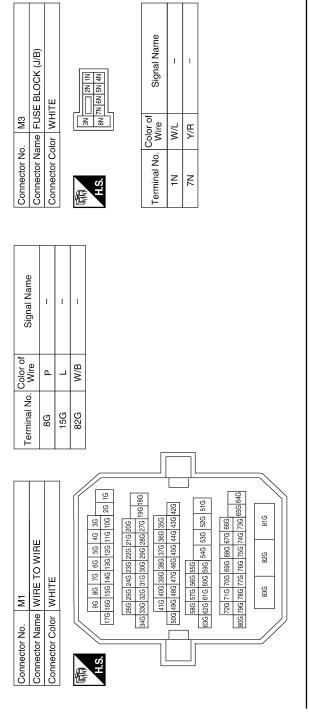
NOTE:

The details of TIME display are as follows.

- CRNT: The malfunctions that are detected now
- 1 39: The number is indicated when it is normal at present and a malfunction was detected in the past. It increases like $0 \to 1 \to 2 \cdots 38 \to 39$ after returning to the normal condition whenever IGN OFF \to ON. It is fixed to 39 until the self-diagnosis results are erased if it is over 39. It returns to 0 when a malfunction is detected again in the process.

WIRING DIAGRAM Α **HEADLAMP (HALOGEN)** Wiring Diagram - Coupe INFOID:0000000006390346 В IPDM E/R (INTELLGENT POWEE DISTRIBUTION MODULE ENGINE ROOM) (E17), (E18), (E200) JOINT CONNECTOR-E04 (E22) C CONNECTOR-E03 2 (E21) D 15A 42 FRONT COMBI-NATION LAMP RH (E222), CPU 15A 43 Е HEAD-LAMP LOW F HGHP-HGH 15A 52 HEADLAMP LOW RELAY 156 FRONT COMBI-NATION LAMP LH (E212), 15A 51 W Н 10A HEAD-LAMP LOW HEADLAMP HIGH RELAY HGHP-10A 48 W J FUSE BLOCK (J/B) (M3), (M5) COMBI-NATION METER (M24) Κ UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY) IGNITION SWITCH ON OR START 10A EXL HIGH BEAM M 10A BCM (BODY CONTROL MODULE) (M16), (M17), (M18), (M19) Ν 12 14 5 2 8 11 9 7 10 13 COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) (M28) 10A **HEADLAMP - HALOGEN** 0 82G M1 Р \$E BATTERY ABLWA0806GB

HEADLAMP CONNECTORS - HALOGEN

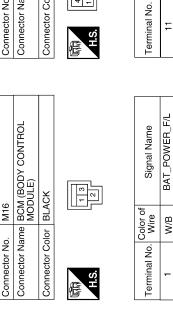


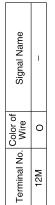
Connector Name FUSE BLOCK (J/B)

M5

Connector No.

Connector Color WHITE





BAT_BCM_FUSE Signal Name

> Υ/R В

> > 13

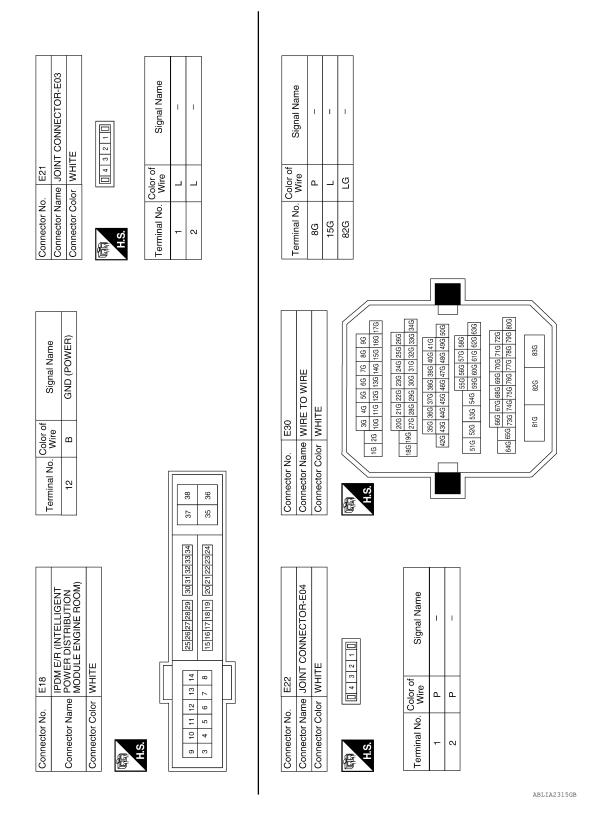
Color of Wire

GND1

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				20 40																								
	TER			13 14 15 16 17 18 19 20 33 34 35 36 37 38 39 40	ne			ER)	7			UIT)		ENT								ne			JAL)			
	COMBINATION METER	1		10 11 12 13 30 31 32 33	Signal Name	BAT	NOI	GND (POWER)	GND (ILL)	CAN-H	CAN-L	GND (CIRCUIT)		I E/R (INTELLIG	MODULE ENGINE ROOM)	Щ		H	44 43			Signal Name	CAN-L	CAN-H	GND (SIGNAL)			
		_		6 7 8	Color of Wire	M/L	0	В	В		۵	В	. E17			lor WHITE		4	42 41 40 39 46 45 44 43		30,20	Wire	۵	_	В			
	Connector Name		H.S.	1 2 3 4 5 21 22 23 24 25	Terminal No.	-	2	က	4	21	22	23	Connector No.		Colinector Name	Connector Color		僵	H.S.			Terminal No.	39	40	41			
				61 60 81 80																								
	TROL			66 65 64 63 62 61 86 85 84 83 82 8	lame	- F	2 2	ب	Ŧ	П_1	JT_4	Т_2		lame		n 0	ا اس	2 - 2	4		П_1	_5_	т_2					
	BCM (BODY CONTROL MODULE)	X		70 69 68 67	Signal Name	5 TUBLIC	OUTPUT	CAN-L	CAN-H	OUTPUT_1	OUTPUT_4	OUTPUT_2	: :	Signal Name	OUTPUT	IOUIFOI E	INPO!	TUTPUT	INPUT 4	INPUT_1	OUTPUT_1	INPUT_5	OUTPUT_2					
_		or BLACK	L	74 73 72 71 94 93 92 91	Color of Wire	<u> </u>	B/G	۵	_	B/W	P/B	B/B	Color of	Wire	<u>۲</u> /خ	LG/R	5 6	LG/B	9/B	B/W	M	R/Y	G/B					
	Connector Name	Connector Color	语 H.S.		Terminal No.	75	9/	78	62	95	96	97		i erminai No.	N I	1 0	\ (ω c	9 6	=	12	13	14					
				21 20 41 40																								
	ROL			3 22	ame	2		2	က္	4				/ІТСН														ŀ
	BCM (BODY CONTROL MODULE)	7		31 30 29 28 27 26 25 24 2 51 50 49 48 47 46 45 44 4	Signal Name	INPUT	INPUT	INPUT	INPUT	INPUT				Connector Name COMBINATION SWI				11 12 13 14										
		GREEN		33 32 31 3	Color of Wire	LG/B	M	G/B	LG/R	G/Y			M28	COMBI	WHITE			2 8										
	Connector Name	Connector Color		39 38 37 36 35 34 33 32 59 58 57 56 55 54 53 52	al No.								tor No.	tor Name	Connector Color		L	1 2										
	Connec	Connec	是 H.S.	39 38 37 59 58 57	Terminal No.	20	51	52	53	54			Connector No.	Connec	Connec	[F	H.S.										
																								ABL:	IA23	14GB		

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Revision: June 2012 EXL-102 2011 Altima GCC

Connector No. E213	Connector Name FRONT COMBINATION LAMP LH	Connector Color BLACK	(4 d)	Color of Signal Name Wire	В Н/Г ГН НІ	
Connec	Connec	Connec	图 H.S.	Termina	б	
2	Connector Name FRONT COMBINATION LAMP LH	CK		Signal Name	н/г гн го	!
). E212	me FRC LAN	olor BLA		Color of Wire		(
Connector No.	Sonnector Na	Connector Color BLACK	i南 H.S.	Terminal No. Wire	-	,

Connector Name Connector Color

Connector No.

WHITE

			_		i .
Signal Name	HEADLAMP_LO_RH	HEADLAMP_LO_LH	HEADLAMP_HI_RH	HEADLAMP_HI_LH	
Color of Wire	R/Υ	٦	N	g	
Terminal No.	83	84	68	06	

0	FRONT COMBINATION LAMP RH	ÇĶ	A	Signal Name	H/L RH LO
.	me FRC LAM	lor BLA		Color of Wire	R/Y
Collifector No.	Connector Name	Connector Color BLACK	H.S.	Terminal No.	1

	Connector Name FRONT COMBINATION LAMP RH	CK	E	Signal Name	H/L RH HI	
. E222	me FRC	lor BLA	4	Color of Wire	ΜΠ	
Connector No.	Connector Na	Connector Color BLACK	原 H.S.	Terminal No.	3	

Signal Name	H/L RH HI	GND	
Color of Wire	L/W	В	
Ferminal No.	3	4	

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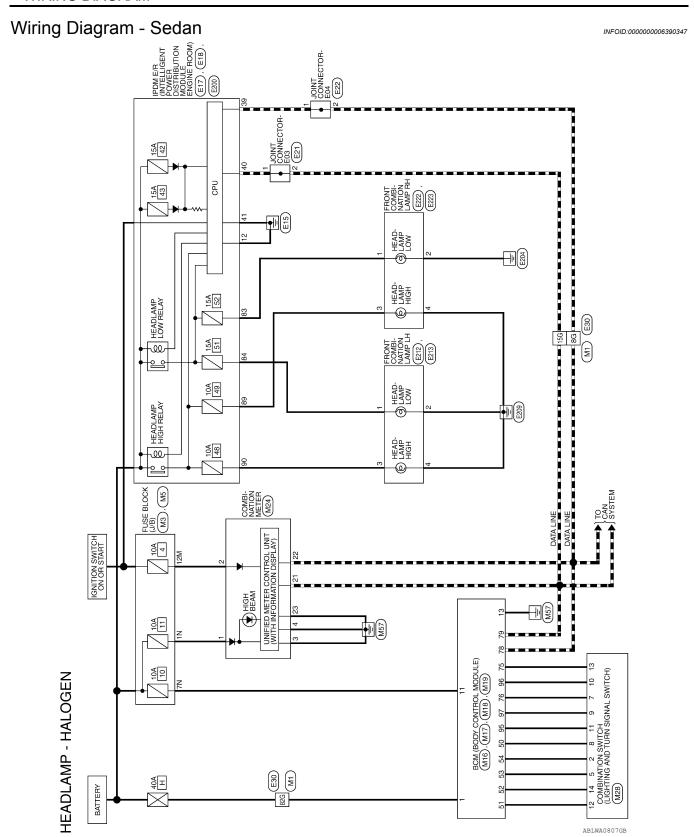
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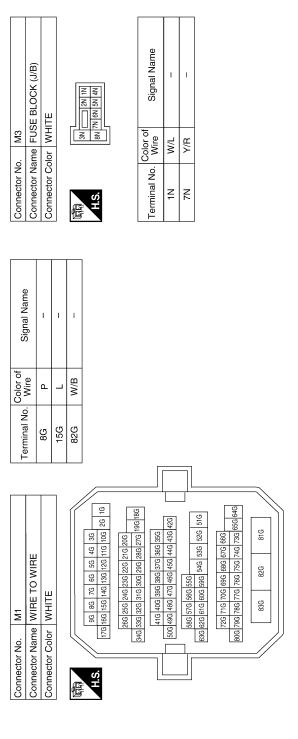
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HEADLAMP CONNECTORS - HALOGEN



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	Connector Name BCM (BODY CONTROL MODULE)	TE .	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Signal Name	BAT_BCM_FUSE	GND1
M17	me BCN MO	or WH	5 6 7 12 13 14	Color of Wire	Y/R	В
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No. Wire	F	13
	Connector Name BCM (BODY CONTROL MODULE)	CK	2 1 3	Signal Name	BAT_POWER_F/L	
M16	ne BCN MOI	or BLA		color of Wire	M/B	
Connector No.	Connector Nan	Connector Color BLACK	南 H.S.	Terminal No. Wire	-	

Connector Name FUSE BLOCK (J/B)	믵	12M 1M	Signal Name	1
ıme FUS	olor WH	5M 4M [12M 11M 10N	Color of Wire	0
Connector Na	Connector Color WHITE	哥 H.S.	Terminal No.	12M

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Connector No.

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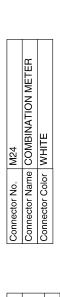
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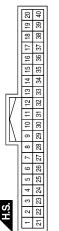
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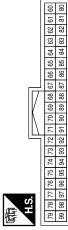
Signal Name	BAT	IGN	GND (POWER)	GND (ILL)	CAN-H	CAN-L	GND (CIRCUIT)	
Color of Wire	T/M	0	В	В	7	Ь	В	
Terminal No.	1	2	က	4	21	22	23	







M19	Connector Name BCM (BODY CONTROL MODULE)	BLACK	
Connector No.	Connector Name	Connector Color BLACK	

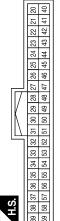


Signal Name	OUTPUT_5	OUTPUT_3	CAN-L	CAN-H	$OUTPUT_{-1}$	OUTPUT_4	OUTPUT_2
Color of Wire	R/Υ	B/G	۵	٦	B/W	P/B	B/B
Terminal No.	75	9/	78	26	92	96	26

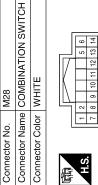
Signal Name	OUTPUT_5	OUTPUT_3	CAN-L	CAN-H	OUTPUT_1	OUTPUT_4	OUTPUT_2
Color of Wire	R/Υ	B/G	۵	٦	B/W	P/B	B/B
Terminal No.	75	9/	78	79	92	96	97

Signal Name	OUTPUT_4	OUTPUT_3	INPUT_3	OUTPUT_5	INPUT_2	INPUT_4	INPUT_1	OUTPUT_1	INPUT_5	OUTPUT_2
Wire	G/Y	LG/R	R/G	LG/B	B/B	P/B	B/W	MΠ	R/Y	G/B
Terminal No.	2	5	7	8	6	10	11	12	13	14

Connector Name BCM (BODY CONTROL MODULE) Connector Color GREEN	Connector No.	M18
Connector Color GREEN	Connector Name E	SCM (BODY CONTROL MODULE)
	Connector Color (3REEN



- 1	22	4	Ш					l	
	23	43							
	24	45 44		<u>ω</u>					
	25	45		ar	5	Ι-,	α,	က	4
	26	46		Signal Name	INPUT_5	INPUT_1	INPUT_2	INPUT_3	INPUT_4
	27	47		la l	굨	⊑	ᆿ	₫	Ĭ
T	88	48) jg	=	=	=	=	=
/	53	49		0,					
	8	20							
\	31	51							
i	32	52		jo "	В	_	m	æ	L
	8	53		Color of Wire	LG/B	\geq	G/B	LG/R	G/Y
	38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 2	25			-	-			
	35	55		o.					
	98	26		Terminal No.		51	52	53	54
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	88	29		e					
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Signal Name	В
Signa	С
No. E21 Color of WHITE Color of Wire Color of Color of	D
Connector No. E21	Е
	F
Signal Name B	G
Signal Name Signal Name B	Н
12 B GND (P Signal N) Wire Signal	I
Terminal No. Connector No. Connector Nar Con	J
	K
PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	EXL
Connector No. E18 Connector Name POWEF MODUL Connector Color WHITE 9 10 11 12 13 14 3 4 5 6 7 8 Connector No. E22 Connector Name JOINT (Connector Color WHITE Terminal No. Wire 1 P 2 P	N
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Connector Name FRONT COMBINATION	MBINATION
Connector Color BLACK	









Color of Wire	9	В
Terminal No.	3	4

E212	Connector Name FRONT COMBINATION LAMP LH	BLACK
Connector No.	Connector Name	Connector Color BLACK

Connector Name Connector Color

E200

Connector No.

WHITE



E



Signal Name	ОТ НТ ПИ	GND
Color of Wire	٦	В
Terminal No.	-	2

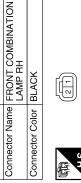
Signal Name	HEADLAMP_LO_RH	HEADLAMP_LO_LH	HEADLAMP_HI_RH	HEADLAMP_HI_LH	
Color of Wire	R/Υ	٦	M/I	g	
Terminal No.	83	84	68	06	



E223

Connector No.

Connector No.







Signal Name	IH HH T/H	GND
Color of Wire	MΠ	В
No.		

Signal Name H/L RH LO

Color of Wire

Terminal No.

GND

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Connector Name FRONT COMBINATION LAMP RH	OK.	<u> </u>	Signal Name	H/L RH HI	
me FRO	lor BLA	4	Color of Wire	L/W	
Connector Na	Connector Color BLACK	原 H.S.	Terminal No.	ဗ	

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HEADLAMP (XENON) Α Wiring Diagram - Coupe INFOID:0000000006390348 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (E17), (E18), (E200) JOINT CONNECTOR-E04 E22 В С CONNECTOR-E03 2 (E21) 15A 42 D FRONT COMBI-NATION LAMP RH (E222) CPU 15A 43 CAMP CAMP Е HDCONT F HEAD-LAMP HIGH 15G 15A 52 HEADLAMP COW RELAY FRONT COMBI-NATION LAMP LH (E212), 15A 51 Н 10A HDSONT HEADLAMP HIGH RELAY HEAD-LAMP HIGH 10A w J FUSE BLOCK (J/B) (M3), (M5) COMBI-NATION METER M24 UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY) Κ IGNITION SWITCH ON OR START 10A EXL HIGH BEAM 10A 11 M BCM (BODY CONTROL MODULE) (M16), (M17), (M18), (M19) 10A 10 12 14 5 2 8 11 9 7 10 13 COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) (M28) **HEADLAMP - XENON** Ν 0 M 130 40A H BATTERY Р

HEADLAMP CONNECTORS - XENON

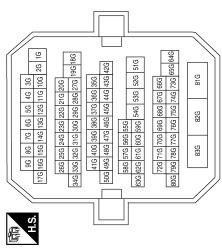
Connector Name WIRE TO WIRE Connector Color WHITE

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Connector No.

tor No. M3	tor Name FUSE BLOCK (J/B)	Connector Color WHITE	3N N N N N N N N N N	Color of Signal Name Signal Name		
Connector No.	Connector Name	Connector (H.S.	Terminal No.	Z.	NZ NZ

Signal Name	-	-	ı	
Color of Wire	Ь	Γ	W/B	
Terminal No. Wire	58	15G	978	



M17	Connector Name BCM (BODY CONTROL MODULE)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	



Signal Name	BAT_BCM_FUSE	GND1
Color of Wire	Y/R	В
Terminal No.	11	13

M16 BCM (BODY C	MODULE)	BLACK	13
Connector No.		Connector Color BLACK	用.S.



Signal Name	BAT_POWER_F/
Color of Wire	W/B
Terminal No. Wire	-

POWER_F/L

Vame FUSE BLOCK (J/B)		2M 1M	7M 6M	
FUSE B	WHITE	4M 3M	1M 10M 9M 8M	
Jame	Solor	2W	12M1	



Signal Name	_	
Color of Wire	0	
Terminal No.	12M	

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Connector No. M24	Connector Name		E		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 8 9 10 11 12 13 14 15 16 17 17 18 18 18 18 18 18	Signal Name Terminal No. Wire Signal Name	OUTPUT_5 1 W/L BAT	OUTPUT_3 2 0 IGN	CAN-L 3 B GND (POWER)	CAN-H GND (ILL)	OUTPUT_1 21 L CAN-H	OUTPUT_4	OUTPUT_2 B GND (CIRCUIT)	Connector No. E17		OUTPUT_4 Connector Name POWER DISTRIBUTION MODILILE ENGINE BOOM	OUTPUT_3 Commuter Color MultE		OUTPUT_5	0	INPUT_4	INPUT_1	OUTPUT_1	INPUT_5 Terminal No. Wire Signal Name	OUTPUT_2 39 P CAN-L	
o. M19		olor BLACK			74 73 72 71 70 69 68 94 93 92 91 90 89 88	Color of Wire	B/Y C	B/G C	۵	7	B/W C	D B/B	R/B C	Color of	Wire		LG/R 0	R/G			P/B		0 M	B/Y	G/B 0	
Connector No.	Connector Name	Connector Color	恒	H.S.	79 78 77 76 75 99 98 97 96 95	Terminal No.	75	92	78	62	95	96	97		lemma No.	7	2	7	80	6	10	E	12	13	14	
Connector No. M18		Connector Color GREEN		H.S.	39 89 57 86 58 54 53 52 51 50 49 48 47 46 45 44 43 42 14 140	Terminal No. Wire Signal Name	50 LG/B INPUT_5	L/W INPUT	52 G/B INPUT_2	53 LG/R INPUT_3	54 G/Y INPUT_4			Connector No. M28	Connector Name COMBINATION SWITCH	Connector Color WHITE			2 5	7 8 9 10 11 12 13 14						

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Connector No. E21 Connector Name JOINT CONNECTOR-E03 Connector Color WHITE	Terminal No. Color of Signal Name 8G P -
Terminal No. Color of Signal Name 12 B GND (POWER)	Connector No. E30 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE Connector Color WHITE 16 26 106 116 126 136 146 156 166 176 18 6 19 6 276 286 286 286 286 286 389 389 389 389 389 389 389 389 389 389
Connector No. E18 Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color WHITE State State	Connector No. E22 Connector Name JOINT CONNECTOR-E04 Connector Color WHITE Terminal No. Wire Signal Name 2 P

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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Connector Name Connector Color

E200

Connector No.

WHITE

Signal Name

Color of Wire

Terminal No.

H/L LH LO GND

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Connector No. E223 Connector Name FRON LAMP Connector Color GRAY	Connector No. E223 Connector Name FRONT COMBINATION Connector Color GRAY
H.S.	2 1

Connector Name FRONT COMBINATION LAMP RH	١٨.		Signal Name	ОЛ НЫ Л/Н	GN5
me FRC	lor GR/	2	Color of Wire	R/Υ	В
Connector Na	Connector Color GRAY	H.S.	Terminal No.	1	2

nnector No.		E222		
nnector Na	ame	FRONT C	nnector Name FRONT COMBINATION LAMP RH	
nnector Color		BLACK		
H.S.		4		
rminal No.	Color of Wire	r of	Signal Name	
က	\mathbb{N}	>	H/L RH HI	
_	α		CINC	

	ī	I	т	_	
Signal Name	HEADLAMP_LO_RH	HEADLAMP_LO_LH	HEADLAMP_HI_RH	HEADLAMP_HI_LH	
Color of Wire	K/∀	٦	MΠ	9	
Terminal No.	83	84	89	06	

E222	Connector Name FRONT COMBINATION LAMP RH	BLACK	
Connector No.	Connector Name	Connector Color BLACK	

	4
	Color of Wire
	S≥
	No.
16	inal
€ ±	Terminal No.
	<u> </u>
	H.S.

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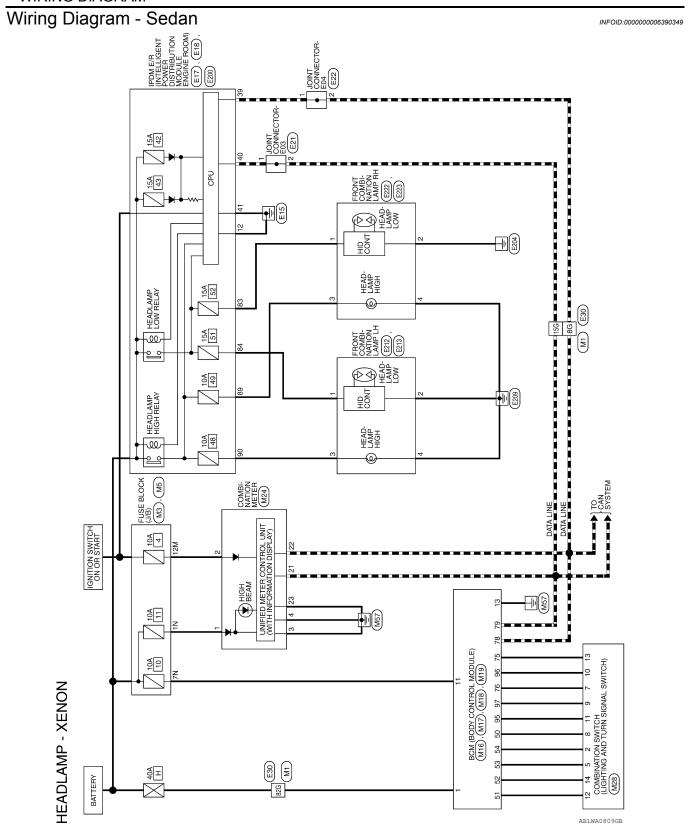
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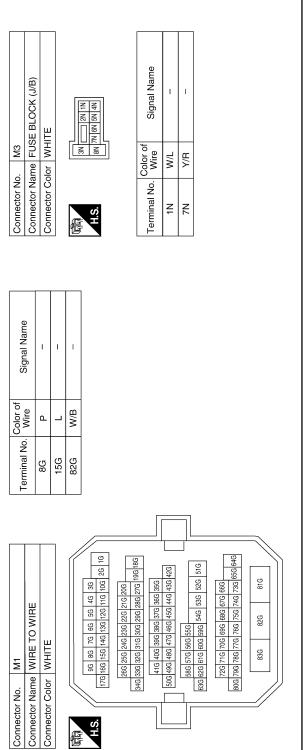
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HEADLAMP CONNECTORS - XENON



M17	Connector Name BCM (BODY CONTROL MODULE)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	

Connector No. M16

M5

Connector No.

Connector Name BCM (BODY CONTROL MODULE)	ITE	1 1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 9 1 0 1 1 1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 9 1 9	Signal Name	BAT_BCM_FUS	GND1
me BCN MO	or WH	5 6 7 12 13 14	Color of Wire	Y/R	В
Connector Nar	Connector Color WHITE	原列 H.S.	Terminal No.	11	13
		<u> </u>			

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nnector Name BCM (BODY CONTROL MODULE)	CK		Signal Name	BAT_POWER_F/L	
tme BCN MOI	olor BLA		Color of Wire	W/B	
nector Na	inector Color BLACK	ο <u>ί</u>	minal No.	1	

	1		
Connector Name BCM (BC MODULE	ıme	MO MO	BCM (BC MODULE
Connector Color BLACK	lor	BLA	S
原列 H.S.			1 3
Terminal No.	Color of Wire	r of	
-	M/B	В	8

Connector Name FUSE BLOCK (J/B)	ITE	12M[1M] (2M] [M] (3M] (2M] [M] (2M] (1M] (2M] (1M] (2M] (2M] (2M] (2M] (2M] (2M] (2M] (2	Signal Name	_
ame FUS	olor WH	5M 4M [12M]11M 10N	Color of Wire	0
Connector Na	Connector Color WHITE	师 H.S.	Terminal No.	12M

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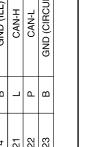
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EXL-115 Revision: June 2012 2011 Altima GCC

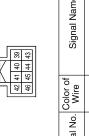


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H.S.	2	21 22 23 24	
4	-	21	
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Signal Name	BAT	IGN	GND (POWER)	GND (ILL)	CAN-H	CAN-L	GND (CIRCUIT)	
Color of Wire	T/M	0	В	В	٦	Ь	В	
erminal No.	1	2	3	4	21	22	23	



E17	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	VHITE	
Connector No.	Connector Name F	Connector Color WHITE	



Signal Name	CAN-L	H-NYO	GND (SIGNAL
Color of Wire	Ь	٦	В
Terminal No.	39	40	41





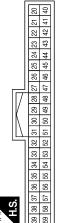
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66	98	97	96 26	92	98	95 94 93	92	91	90	68	88	87	98	85	85 84 83	83	82	81	81 80	
Terminal No.] [ll a				Color of Wire	† 0				Big	la	Signal Name	E				l —		_
				T				4										_		
_																				

Signal Name	OUTPUT_5	OUTPUT_3	CAN-L	CAN-H	OUTPUT_1	OUTPUT_4	OUTPUT_2
Color of Wire	R/Y	B/G	Ь	٦	B/W	P/B	R/B
Terminal No.	75	9/	78	26	92	96	6

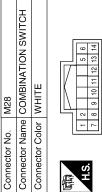
INPUT_3	B/G	7
S_TUTFUC	LG/R	2
OUTPUT_4	G/Y	2
Signal Name	Color of Wire	Terminal No.

Signal Name	OUTPUT_4	OUTPUT_3	INPUT_3	OUTPUT_5	INPUT_2	INPUT_4	INPUT_1	OUTPUT_1	INPUT_5	OUTPUT_2
Wire	G/Y	LG/R	B/G	LG/B	B/B	P/B	M/A	MΠ	R/Y	G/B
Terminal No.	2	5	7	8	6	10	11	12	13	14

Connector No. N	M18
Connector Name B	Connector Name BCM (BODY CONTROL MODULE)
Connector Color GREEN	SREEN



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	22	4		Signal Name	INPUT_5	INPUT_1	INPUT_2	INPUT_3	INPUT_4
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	30	20							
	31	51 50							
	38 37 36 35 34 33 32 31 30 29 28	25		Color of Wire	m	_	_	اھ	L
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	98	29		<u>Z</u>					
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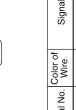
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No. E21	D
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	F
Signal Name GND (POWER) GND (POWER) WIRE 56 66 76 86 96 20 136 146 156 166 176 56 66 77 86 96 56 66 77 86 96 57 136 146 156 166 176 58 50 57 18 50 30 346 58 50 57 18 50 57 18 50 36 58 50 57 18 50 57 18 50 36 58 50 57 18 50 57 18 50 36 58 50 57 18 50 57 18 50 36 58 50 57 18 50 57 18 50 30 346 58 50 57 18 50 57 18 50 30 346 58 50 57 18 50 57 18 50 30 346 58 50 57 18 50 57 18 50 30 346 58 50 57 18 50 57 18 50 30 346 58 50 57 18 50 57 18 50 30 346 58 50 57 18 50 57 18 50 30 346 58 50 57 18 50 57 18 50 30 346 58 50 57 18 57 18 57 18 50 30 346 58 50 57 18 57 1	G
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Connector No. E30 Connector No. E30 Connector Name WIRE T Connector Color WHITE Connector Color WHITE 16 26 106 106 106 106 106 106 106 106 106 10	I
Terminal No. Connector No. Connector Nan Connector Nan Connector Colf	J
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E18 WHITE Signal Name Signal	EXL
	M
Connector Name PDM MOE PDM MOE PDM MOE PDM MOE PDM P	Ν
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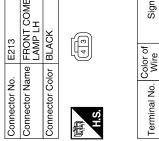
Revision: June 2012 EXL-117 2011 Altima GCC

No. E213	onnector Name FRONT COMBINATION LAMP LH	nnector Color BLACK
onnector No.	onnector N	nnector C



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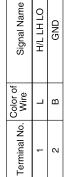


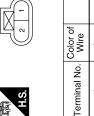


E200

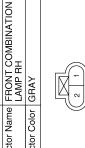
Connector No.





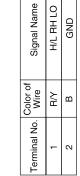


Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Sonnector Color	olor WHITE	ІТЕ
塘	88	88
H.S.	68 06	88 87 86
Terminal No.	Color of Wire	Signal Name
83	R/Υ	HEADLAMP_LO_RH
84	٦	HEADLAMP_LO_LH
68	M٦	HEADLAMP_HI_RH
06	Э	HEADLAMP_HI_LH





Connector No.



Connec	Connec	E SH

	FRONT COMBINATION LAMP RH	Š	FF)	Signal Name	H/L RH HI	GND
. E222		lor BLA	4	Color of Wire	N/I	В
Connector No.	Connector Name	Connector Color BLACK	H.S.	Terminal No.	8	4

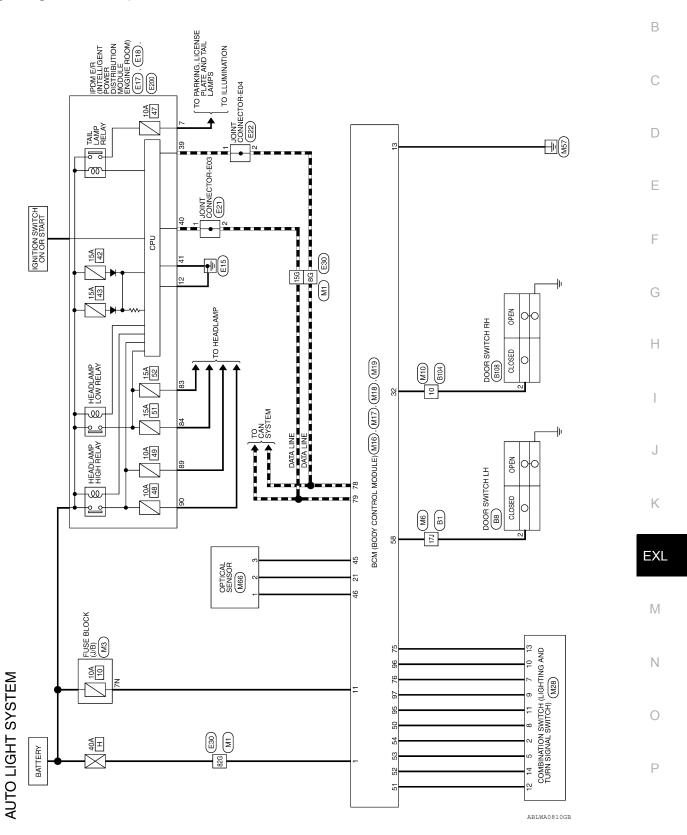
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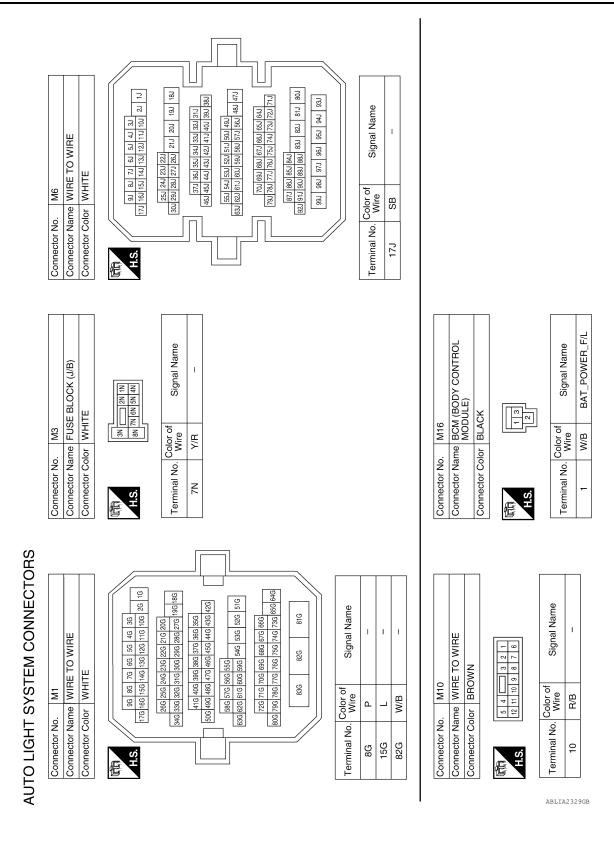
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AUTO LIGHT SYSTEM

Wiring Diagram - Coupe





AUTO LIGHT SYSTEM

< WIRING DIAGRAM >

Signal Name	GND RF2 A/L	A/L SENS KEYLESS TUNER POWER SUPPLY	INPUT 5	INPUT 1	INPUT 2	INPUT 3	INPUT 4	DR DOOR SW
Color of Wire	Д	W/N	LG/B	L/W	G/B	LG/R	G/Y	SB
Terminal No. Wire	45	46	20	51	52	53	54	28

AUTO LIGHT SENSOR INPUT1 AS DOOR SW

B/B

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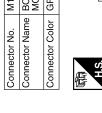
Signal Name

Terminal No. Wire

Connector No.	M18
Sonnector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color GREEN	GREEN

M17

Connector No.



Connector Name BCM (BODY CONTROL MODULE)	ПЕ	1	[61 01 14 15 16 18	Signal Name	BAT_BCM_FUSE	LGND1
me BCI MO	lor WH	5 6 7	4 6 7 1	Color of Wire	Y/R	В
Connector Na	Connector Color WHITE		H.S.	Terminal No.	11	13

Connector No.	. M66	
Connector Na	me OPT	Connector Name OPTICAL SENSOR
Connector Color WHITE	lor WHI	TE
H.S.		2 3
Terminal No.	Color of Wire	Signal Name
1	MΛ	POWER
2	B/B	OUTPUT
3	Ь	GND

Signal Name

Color of Wire

Terminal No.

OUTPUT 4 OUTPUT 3

LG/R

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N 2 OUTPUT 5

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INPUT 3

R/G LG/B

. M28	ector Name COMBINATION SWITCH	ector Color WHITE	
ector No.	ector Nan	ector Colc	

Connector Nam Connector Colo	or Colo
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				65	86 85
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99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83		Terminal No.
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Signal Name	OUTPUT 5	OUTPUT 3	CAN-L	CAN-H	OUTPUT 1	OUTPUT 4	OUTPUT 2
Color of Wire	R/Υ	R/G	Ь	٦	B/W	B/B	B/B
erminal No.	75	9/	78	62	92	96	26

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OUTPUT 1

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INPUT 4 INPUT 2

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R/W P/B R/B

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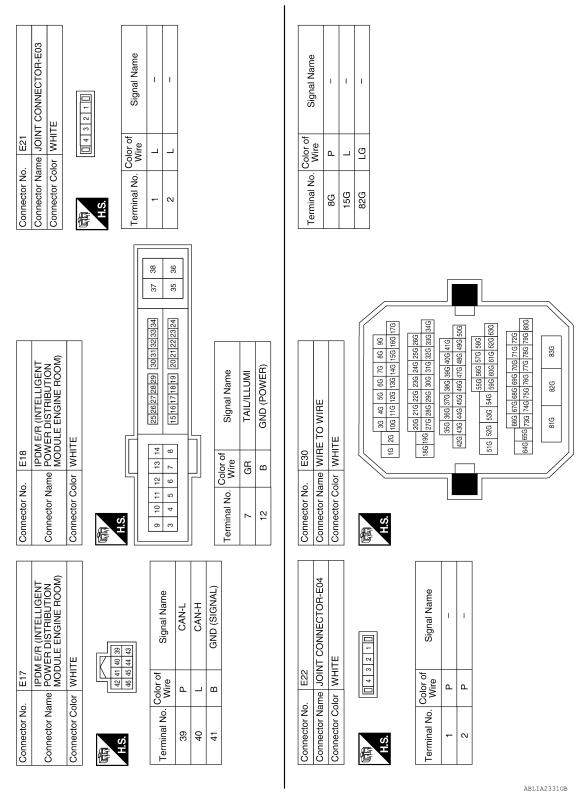
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Connector No. M19
Connector Name BCM (BODY CONTROL



Connector No. B8 Connector Name DOOR SWITCH LH Connector Color WHITE H.S.	Terminal No. Color of Signal Name Wire SB DOOR SW (DR)	
Connector No. B1 Connector Name WIRE TO WIRE Connector Color WHITE WHITE	33.1 32.1 33.1 33.1 33.1 37.1 38.1 39.1 40.1 41.1 42.1 43.1 44.1 45.1 46.2 49.1 49.1 49.1 49.1 49.1 49.1 49.1 49.1 49.1 49.1 49.1 49.1 49.1 49.1 49.1 49.1 49.1 49.1 49.2 49.2 49.1 49.1 49.1 49.1 49.1 49.1 49.2 49.2 49.2 49.2 49.1 49.1 49.2 49.2 49.2 49.2 49.2 49.2 49.2 49.2 49.2 49.3 49.4 49.5 49.2 49.2 49.2 49.2 49.2 49.3 49.4 49.5 49.2 49.2 49.2 49.2 49.3 49.4 49.5 49.2 49.2 49.2 49.2 49.3 49.4 49.5 49.2 49.2 49.2 49.2 49.3 49.4 49.5 49.2 49.2 49.2 49.2 49.3 49.4 49.5 49.2 49.2 49.2 49.2 49.3 49.4 49.5 49.2 49.2 49.2 49.2 49.3 49.4 49.5 49.2 49.2 49.2 49.2 49.3 49.4 49.5 49.2 49.2 49.2 49.3 49.4 49.5 49.2 49.2 49.2 49.3 49.4 49.5 49.2 49.2 49.2 49.3 49.4 49.5 49.2 49.2 49.2 49.3 49.4 49.5 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.2 49.3 49.3 49.2 49.2 49.3 49.2 49.2 49.2 49.3 49.2 49.2 49.2 49.3 49.2 49.2 49.3 49.2 49.2 49.3 49.2 49.2 49.3 49.2 49.2 49.3 49.2 49.2 49.3 49.2 49.2 49.3 49.2 49.2 49.3 49.2 49.2 49.3 49.2 49.2 49.3 49.2 49.2 49.3 49.2 49.2 49.3 49.2 49.3 49.2 49.2 49.3 49.2 49.3 49.2 49.3 49.2 49.3 49.2 49.3 49.2 49.3 49.2	Color of Signal Name Wire -
Connector Name WIRE T Connector Color WHITE H.S. 13 191 20 101		Terminal No. (Col
E200 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE	Signal Name HEADLAMP_LO_RH HEADLAMP_LO_LH HEADLAMP_HI_RH HEADLAMP_HI_LH	
	Color of Wire L/W Color of Col	
Connector No. Connector Color Connector Color	Terminal No. 83 84 89 90	

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B108	Connector Name DOOR SWITCH RH	WHITE
Connector No.	Connector Name	Connector Color WHITE



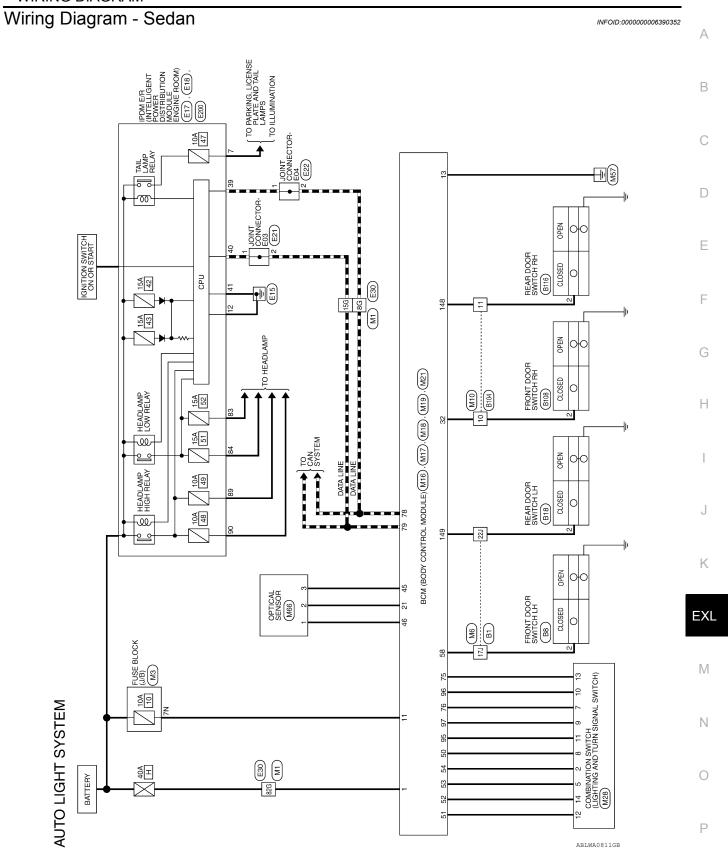
Signal Name	DOOR SW (AS	
Color of Wire	GR	
Terminal No.	2	

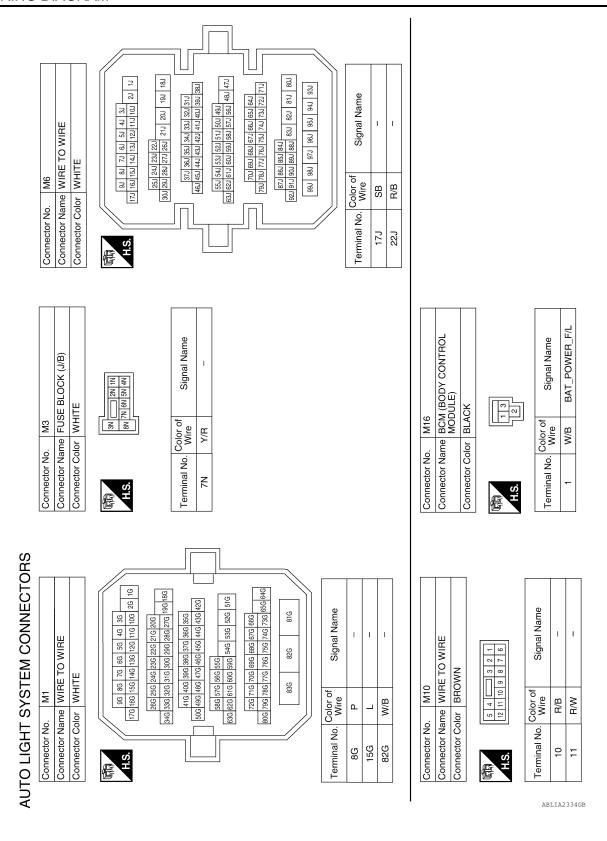
) WIRE		4 5	9 10 11 12	
B104	WIRE TC	BROWN	2 3	7 8 9 1	
Connector No.	Connector Name WIRE TO WIRE	Connector Color BROWN		9	

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Signal Name	1
Color of Wire	GR
Terminal No.	10

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AUTO LIGHT SYSTEM

Signal Name	GND RF2 A/L	A/L SENS KEYLESS TUNER POWER SUPPLY	INPUT 5	INPUT 1	INPUT 2	INPUT 3	INPUT 4	DR DOOR SW
Color of Wire	۵	W/N	LG/B	M	G/B	LG/R	G/Y	SB
Terminal No.	45	46	90	51	52	23	54	58

				21 20 41 40				
	BCM (BODY CONTROL MODULE)	GREEN		30 29 28 27 26 25 24 23 22 50 49 48 47 46 45 44 43 42	Signal Name	AUTO LIGHT SENSOR INPUT1	AS DOOR SW	
. M18		_		34 33 32 31 54 53 52 51	Color of Wire	P/B	B/B	
Connector No.	Connector Name	Connector Color	(中) H.S.	39 38 37 36 35 59 58 57 56 55	Terminal No.	21	32	

BAT_BCM_FUSE

₩ B

GND1

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	Connector Name BCM (BODY CONTROL MODULE)	ITE	11 12 13 14 15 16 17 18 19	Signal Name
. M17	me BCN	lor WH	1 12 13 14	Color of Wire
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No.

SWITCH	0 <u>4</u>	Signal Name	OUTPUT_4	OUTPUT_3	INPUT_3	OUTPUT_5	INPUT_2	INPUT_4	INPUT_1	OUTPUT_1	INPUT_5	PUT_2
M28 COMBINATION SWITCH WHITE	01 01 01 01 01 01 01 01 01 01 01 01 01 0											OUTPUT
-	7 1 8 8 5	Color of Wire	G∕Y	LG/R	R/G	LG/B	R/B	P/B	R/W	MΠ	R/Υ	G/B
Connector No. Connector Name Connector Color	H.S.	Terminal No.	2	5	7	8	6	10	11	12	13	14

				13 112			
	Connector Name BCM (BODY CONTROL MODULE)	47		130 123 123 123 123 124 123 125 120 120 119 118 117 116 115 114 115 115 114 115 115 115 115 115	Signal Name	RR_DOOR_SW	WS ACCO IA
	me BCN	lor GR/	<u>L</u>	126 125 124 1 146 145 144 1	Color of Wire	B/W	a/a
COLLINGING.	Connector Na	Connector Color GRAY	是 H.S.	131 130 129 128 127 1 151 150 149 148 147	Terminal No.	148	149

Connector No.	M19
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK
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79 78 77 76 75 74 73 72 71 70 69	75	74	73	12	7	2	69	89	29	99	65	42	8	8	19	8
99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81	92	94	93	95	91	96	88	88	87	98	85	84	83	82		80

Signal Name	OUTPUT_5	OUTPUT_3	CAN-L	CAN-H	OUTPUT_1	OUTPUT_4	OUTPUT_2
Color of Wire	R/Υ	R/G	Д	Т	B/W	P/B	B/B
Terminal No.	75	9/	78	6/	95	96	26

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Revision: June 2012 EXL-127 2011 Altima GCC

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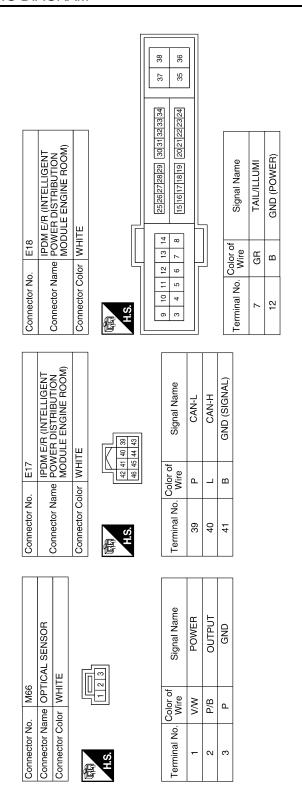
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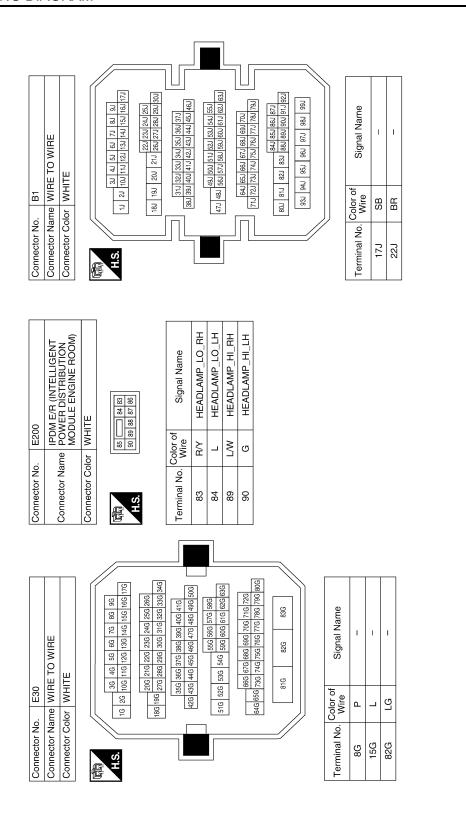
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NT CONNECTOR-E04	ІТЕ	3 2 1	Signal Name	_	I
ume JOI	olor WF	4	Color of Wire	Ь	Ь
Connector Na	Connector Co	H.S.	Terminal No.	1	2
IT CONNECTOR-E03	TE	3 2 1	Signal Name	I	I
JOIN	or WHI	4	Solor of Wire	7	٦
Connector Nan	Connector Colo	find H.S.	Terminal No.	1	2
	Connector Name JOINT CONNECTOR-E03 Connector Name JOINT CONNECTOR-E04		CONNECTOR-E03	Signal Name	Signal Name

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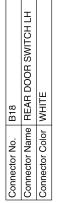
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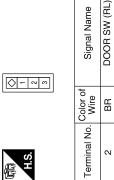
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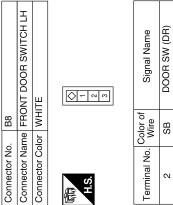
AUTO LIGHT SYSTEM

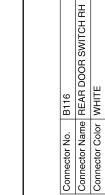


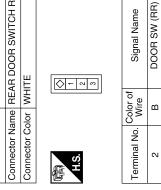
Signal Name	I	I
Color of Wire	GR	В
Terminal No.	10	11





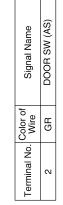






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Connector No.	B108
Connector Name	Connector Name FRONT DOOR SWITCH RH
Connector Color WHITE	WHITE



ABLIA2338GB

FRONT FOG LAMP Α Wiring Diagram - Coupe INFOID:0000000006390353 В IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (E17), (E18), С D 15A 42 CPU Е 15A 43 F G Н COMBINATION METER (M24) FUSE BLOCK (J/B) (M3), (M5) J UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY) IGNITION SWITCH ON OR START 4 A Κ Fog BCM (BODY CONTROL MODULE) (M16), (M17), (M18), (M19) COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) (M28) 10A EXL M 10A M 1 40 4 BATTERY Ν FRONT FOG LAMP 0 Р ABLWA0822GB

BAT_BCM_FUSE Connector Name BCM (BODY CONTROL MODULE) Signal Name Signal Name GND1 Connector Name FUSE BLOCK (J/B) 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 3N 2N 1N 8N 7N 6N 5N 4N Connector Color WHITE Connector Color | WHITE Color of Wire M17 Color of Wire W/L Υ/R Y/R В Connector No. Connector No. Terminal No. Terminal No. Ξ 13 Ϋ́ K BAT_POWER_F/L Connector Name BCM (BODY CONTROL MODULE) Signal Name Signal Name 1 3 BLACK M16 Color of Wire W/B W/B ۵ _ Connector Color Connector No. Terminal No. Terminal No. 8G 15G 82G H.S. 偃 FRONT FOG LAMP CONNECTORS 96 86 76 66 56 46 36 176 166 156 146 136 126 116 106 26 16 266 256 246 236 226 216 206 346 336 326 316 306 236 286 276 196 186 72G 71G 70G 69G 68G 67G 66G 80G 79G 78G 77G 76G 75G 74G 73G 65G 64G 58G 57G 56G 55G 63G 62G 61G 60G 59G 54G 53G 52G 51G 50G 49G 48G 47G 46G 45G 44G 43G 42G Signal Name 816 41G 40G 39G 38G 37G 36G 35G Connector Name FUSE BLOCK (J/B) Connector Name | WIRE TO WIRE 5M 4M 3M 2M 1M 12M11M10M9M 8M 7M 6M 82G Connector Color | WHITE Connector Color WHITE 836 Color of Wire M5 Σ 0 Connector No. Connector No. Terminal No. 12M H.S.

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	Ī	19 20 39 40																								
M24 COMBINATION METER WHITE		10 11 12 13 14 15 16 17 18 30 31 32 33 34 35 36 37 38	Signal Name	BAT	IGN	GND (POWER)	GND (ILL)	CAN-H	CAN-L	GND (CIRCUIT)		IPDM E/R (INTELLIGENT POWER DISTRIBITION	JLE ENGINE ROOM)	Щ	٦		14 43			Signal Name	CAN-L	CAN-H	GND (SIGNAL)			
9 z		4 5 6 7 8 9 24 25 26 27 28 29	Color of Wire	M/L	0	В	В	٦	۵	В	E17			or WHITE		42 41 40	46 45 44 43		0000	Wire	Ь	_	В			
Connector Name	斯 H.S.	21 22 23 24 25 2	Terminal No.	-	2	3	4	21	22	23	Connector No.	Connector Name		Connector Color		NH/HA	Š			Terminal No.	39	40	41			
		61 60																								
BCM (BODY CONTROL MODULE) BLACK	[<u></u>	69 68 67 66 65 64 63 62 89 88 87 86 85 84 83 82	Signal Name	OUTPUT_5	OUTPUT_3	CAN-L	CAN-H	OUTPUT_1	OUTPUT_4	OUTPUT_2	Signal Name	E HIGH			OUTPUT_5	INPUT_2	INPUT_4	INPUT_1	OUTPUT_1	INPUT_5	OUTPUT_2					
		74 73 72 71 70 94 93 92 91 90	Color of Wire	ΡΥ	B/G	۵	7	B/W	P/B	B/B	Color of	MI'e	. B/S	R/G	LG/B	R/B	P/B	R/W	L/W	R/Υ	G/B					
Connector Name	H.S.	79 78 77 76 75 74 99 98 97 96 95 94	Terminal No.	75	92	78	62	95	96	97	Terminal No				8	6	10	11	12	13	14					
		21 20 41 40																								
BCM (BODY CONTROL MODULE) GREEN	\[\bar{\pi}	29 28 27 26 25 24 23 22 49 48 47 46 45 44 43 42	Signal Name	INPUT_5	INPUT_1	INPUT_2	INPUT_3	INPUT_4				NATION SWITCH			2 6	_										
		33 32 31 30 53 52 51 50	Color of Wire	LG/B	L/W	G/B	LG/R	G/Y			M28	e COMBI	WHITE		7 2	8 9 10										
Connector Name Connector Color	原 H.S.	39 38 37 36 35 34 33 32 3 59 58 57 56 55 54 53 52 5	Terminal No. V	20 L		52 (54 (Connector No.	Connector Name COMBINATION SWI	Connector Color	£												
																						ABL	IA23	89GB		

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Connector No. E21 Connector Name JOINT CONNECTOR-E03 Connector Color WHITE H.S. Image: Ima	Color of Signal Name
Terminal No. Wire Signal Name 12 B GND (POWER)	Connector No. E30 Connector Name WIRE TO WIRE Connector Color WHITE 36 46 56 66 76 86 96 16 26 106 116 126 136 146 156 166 176 200 216 226 236 246 256 266 186 196 276 286 286 306 316 226 286 356 366 376 386 389 380 406 416 426 439 449 459 469 479 489 489 800 516 226 536 546 596 606 616 626 636 816 826 836 776 786 776 786 779 800
Connector No. E18 Connector Name PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color WHITE WHITE E1682728829 3031323334 E1682728829 3031323334 E1682728829 3031323334 E1682728129 2021222324 E1682728129 20212222324 E1682728129 2021222324 E1682728129 20212222324 E1682728129 20212222324 E1682728129 2021222324 E1682728129 20212222324 E1682728129 20212222324 E16827281282324 E1682728128 E16827288128 E1682728818 E168272888 E168272888 E168272888 E168272888 E1682728	Connector No. F22 Connector Name JOINT CONNECTOR-E04 Connector Color WHITE Terminal No. Color of Signal Name 2 P

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	AMP RH	
	G LAI	





	Signal Na	FR_FOG_	GND
יני	Color of Wire	M/R	В
H.S.	Terminal No.	1	2





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	ΡU		
	NT FOG LAMP LH		
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	Ы		
	F	송	



Signal Name	FR_FOG_RL	GND
Color of Wire	ΓΛ	В
Terminal No.	1	2





Connector No.	E200
Connector Name	Sonnector Name POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Color WHITE	WHITE





Signal Name	FR_FOG_LAMP_RH	FR_FOG_LAMP_LH
Color of Wire	W/R	\sim
Terminal No.	98	87

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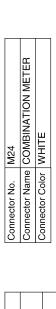
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< WIRING DIAGRAM > Wiring Diagram - Sedan INFOID:0000000006390354 IPDM E/R
(INTELLIGENT
POWER
DISTRIBUTION
MODULE
ENGINE ROOM)
(E17), (E18),
(E20) JOINT CONNECTOR-E04 (E22) 8G 156 M1 15A 42 CPU 15A 43 FOG LAMP (E214) COMBINATION METER (M24) FUSE BLOCK (J/B) (M3), (M5) UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY) IGNITION SWITCH ON OR START 40A FOG BCM (BODY CONTROL MODULE) (M16), (M17), (M18), (M19) COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) (M28) 40 11 10 10 11 ₽ 10 4 82G M1 401 BATTERY FRONT FOG LAMP - Neg

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																				Α
																Г				В
		CK (J/B)			N 4 N]		olgnal Name -	1				Y CONTROL		8 9 10 7 18 19		Signal Name	BAT_BCM_FUSE	GND1	С
	3	FUSE BLOCK (J/B)	WHITE	Г	3N 2N 1N 8N 7N 6N 5N 4N							M17	CM (BOD ODULE)	WHITE	11 12 13 14 15 16 17 18 19					D
	Connector No. M3		Connector Color W	L		_	Color of	2				Connector No. M	Connector Name BCM (BODY CONTROL MODULE)	Connector Color W		_	Terminal No. Wire		13 B	Е
	Conne	Conne	Conne	ģ	E ST		- i		N.			Conne	Conne	Conne	H.S.		Termi			F
			_	Т												Г				G
	Signal Name				1								ODY CONTROL				Signal Name	BAT_POWER_F/L		Н
	Color of Wire	2 0	L _	7 6/4/	٩							M16	BCM (B MODUL	BLACK	1 3		Color of Wire	W/B		I
	Terminal No.	68	1									Connector No.	Connector Name BCM (BODY CONTROL MODULE)	Connector Color	(京南) H.S.	_	Terminal No.	1 W		J
"					<u> </u>			Ţ	ŢĹ					_		L				K
NNECTORS		IIRE			56 46 36	176 166 156 146 136 126 116 106 26 16 16 16 16 16 16 1	346 336 326 316 306 296 286 276 196 186	416 406 396 376 366 356 506 496 486 476 466 456 446 436 426	58G 57G 56G 55G	726 716 706 896 886 676 666	82G 81G		CK (J/B)		1M 6M		Signal Name	-		EXL
P CO		RE TO W	WHITE		96 86 76 66 56	5G 14G 13G G 24G 23G 2	G 31G 30G 2	0G 39G 38G 8G 47G 46G	58G 57G 56G 55G	G 70G 69G	83G 82		FUSE BLOC	⊔ ≣	5M 4M					M
LAM	.c	ame WII	$\overline{}$		36	176 166 1	34G 33G 32	41G 4 50G 49G 4	58G 57	726 77	806 / 86 / 8	o. M5	ame FU		5M 4M C		Color of Wire	0		Ν
FRONT FOG LAMP CONNEC	Connector No.	Connector Name WIRE TO WIRE	Connector Color	4	SH							Connector No.	Connector Name FUSE BLOCK (J/B)	Connector Color	(京) H.S.		Terminal No.	12M		0
Ä																			ABLIA2339GB	D
																				Р

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	16	36	il
	15	35	il
	14	34	il
	10 11 12 13 14 15 16 17 18 19	33	ıl
-117	12	32	il
- IV	Ξ	31	il
- 11	9	30	il
	6	29	il
ä	8	28	il
	7	27	il
	9 9	26	il
		25	il
	4	24 25	I
46	3	ಜ	I
H.S.	2	22	I
A	-	21	

Terminal No. Color of Vire Signal Name 1 W/L BAT 2 O IGN 3 B GND (POWER) 4 B GND (ILL) 21 L CAN-H 22 P CAN-H 23 B GND (CIRCUIT)									
Color of Color of 1	Signal Name	BAT	IGN	GND (POWER)	GND (ILL)	CAN-H	CAN-L	GND (CIRCUIT)	
Terminal No. 2 3 4 4 22 22 22 23	Color of Wire	W/L	0	В	В	Τ	Ь	В	
	Terminal No.	-	2	က	4	21	22	23	

	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	НТЕ
Connector No. E17	Connector Name POW	Connector Color WHITE

Signal Name	CAN-L	CAN-H	GND (SIGNAL)
Color of Wire	Ь	_	В
erminal No.	39	40	41

M19	Connector Name BCM (BODY CONTROL MODULE)	3LACK	
Connector No.	Connector Name	Connector Color BLACK	

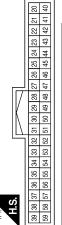


	Signal Name	OUTPUT_5	OUTPUT_3	CAN-L	CAN-H	OUTPUT_1	OUTPUT_4	OUTPUT_2
	Color of Wire	R/Y	B/G	Ь	٦	R/W	P/B	B/B
	Terminal No. Wire	75	9/	28	62	92	96	26

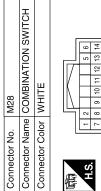
	Color of

	_									
Signal Name	OUTPUT_4	OUTPUT_3	INPUT_3	OUTPUT_5	INPUT_2	INPUT_4	INPUT_1	OUTPUT_1	INPUT_5	OUTPUT_2
Wire	G/Y	LG/R	R/G	LG/B	B/B	P/B	B/W	MΠ	R/Y	G/B
Terminal No.	2	9	7	8	6	10	11	12	13	14

Connector Name BCM (BODY CONTROL MODULE) Connector Color GREEN	Connector No.	M18
Connector Color GREEN	Connector Name	BCM (BODY CONTROL MODULE)
	Connector Color	GREEN



Signal Name	INPUT_5	INPUT_1	INPUT_2	INPUT_3	INPUT_4
Color of Wire	LG/B	Γ/M	G/B	LG/R	G/Y
Terminal No.	09	51	25	23	54



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	Α
Signal Name	В
Signal Signal	С
No. E21 No. Color of	D
Connector No. E21	Е
	F
Signal Name	G
12 B GND (POWER)	Н
Connector No. E30 Connector No. E30 Connector Name WIRE T Connector Name WIRE T Connector Name WIRE T Connector Color WHITE 16 26 106 110 110 110 110 110 110 110 110 11	I
Terminal No. Connector No. Connector Nam Connector Nam Connector Nam Connector Nam (16)	J
DOW) Sol	K
(INTELLIGENT DISTRIBUTION ENGINE ROOM) ESERIZEBE 303132334 ISTRIBUTION Signal Name	EXL
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Connector No. Connector No. Connector No. Connector No. Connector No. Connector No. 1 1 2 1 2	0
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onnector No.	E227
onnector Name	onnector Name FRONT FOG LAMP RH
onnector Color BLACK	BLACK





H	Color of	Ċ
l erminal No.	Wire	Signal N
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N	מ	JN5

E214	Connector Name FRONT FOG LAMP LH	lor BLACK	[2]
Connector No.	Connector Nar	Connector Color BLACK	



of Signal Nam	FR_FOG_RI	GND	
Color of Wire	λЛ	В	
Terminal No.	1	5	

E200	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	







Signal Name	FR_FOG_LAMP_RH	FR_FOG_LAMP_LH
Color of Wire	W/R	۲
Terminal No.	98	87

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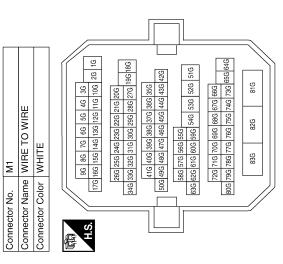
< WIRING DIAGRAM > TURN SIGNAL AND HAZARD WARNING LAMPS Α Wiring Diagram - Coupe INFOID:0000000006390355 В Ö С OFF M15 D JOINT CONNECTOR-M02 (M63) Е TURN M6 B1 F DATA LINE DATA LINE CAN SYSTEM BCM (BODY CONTROL MODULE) (M16), (M17), (M18), (M19) Н FRONT COMBINATION LAMP LH (E217) COMBINATION METER (M24) FUSE BLOCK (J/B) (M3), (M5) Œ E30 E E202 UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY) - Table (23) J REAR COMBINATION LAMP LH (B30) IGNITION SWITCH ON OR START TURN TURN TURN SIGNAL AND HAZARD WARNING LAMPS Κ TURN [E] [M] 10A EXL DOOR MIRROR LH D4 M12 10A M ₩ COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) (M28) \$□ Ν BATTERY 0

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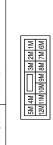
TURN SIGNAL AND HAZARD WARNING LAMPS CONNECTORS

_			-			
	Connector Name FUSE BLOCK (J/B)	ITE	NI NA INI	Signal Name	ı	1
۲ M	E S	×	₩ ₩ ₩	olor of Vire	M/L	Y/B
_ ا	١٣,	흥		<u> </u>		Ĺ
Connector No	Connector Na	Connector Color WHITE	用.S.	Terminal No. Wire	N.	NZ
			_			
	4					

Signal Name	ı	ı	I
Color of Wire	G/Y	G/B	M/B
Terminal No.	16	2G	82G



Connector Name FUSE BLOCK (J/B) Connector Color WHITE	Connector No.	M5
Connector Color WHITE	Connector Name	FUSE BLOCK (J/B)
	Connector Color	WHITE



erminal No. Wire Signal Name	Signal Name	Wire	Terminal No. 12M
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TURN SIGNAL AND HAZARD WARNING LAMPS

< WIRING DIAGRAM >

Connector No. M11	Connector Name WIRE TO WIRE Connector Color WHITE M.S. Terminal No. Color of Signal Name 4 G/B Connector Name A G/B	B C D
		F
Signal Name	O WIRE ■ 3 4 B 9 10 Signal Name	G
Wire B B B G/B G/B	2. M14 ame WIRE TO blor WHITE 5 6 7 8 Wire B	Н
7 Terminal No. 0	Connector No. M14 Connector Name WIRE TO WIRE Connector Color WHITE Terminal No. Color of Signar 5 B	J
190 18J 190 18J 18J 18J 18J 18J 18J 18J 18J 18J 18J		K
110 101	WIRE 14 15 16 14 15 16 16 1 16 16 1 16 16 1 16 1	EX
WHITE WHIT	M12 IP WIRE TO WIRE IP 2 3 4 5 6 7 9 10 11 12 13 14 15 Olor of Signal G/Y	M
Name WIF	No. M12 Color of 9. Wire G/7	N
Connector No. M6 Connector Name WIRE TO WIRE Connector Color WHITE Sulface Sulf	Connector No. M12 Connector Name WIRE TO WIRE Connector Color WHITE 1 2 3 4 5 6 7 1 9 10 11 12 13 14 15 14 15 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	0
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TURN SIGNAL AND HAZARD WARNING LAMPS

< WIRING DIAGRAM >

ector No. M1 ector Name BC ector Color GF	58 58 57 56 55 54 53 52 57 50 59 58 12 56 129 54 12 57 12 12 12 12 12 12 12 1	50 LG/B INPUT 5 51 L/W INPUT 1	52 G/B INPUT 2 53 LG/R INPUT 3	G/Y	Connector No. M28 Connector Name COMBINATION SWITCH	Connector Color WHITE	H.S.	Terminal No. Wire Signal Name	G/Y	5 LG/R OUTPUT 3 7 R/G INPUT 3	8 LG/B OUTPUT 5	9 R/B INPUT 2	10 P/B INPUT 4	11 R/W INPUT 1	12 L/W OUTPUT 1	R/Y	14 G/B OUTPUT 2
Connector No. M17 Connector Name BCM (BODY CONTROL MODULE) Connector Color WHITE 4 5 6 7 6 7 6 9 10 H.S.	I No. Color of Sig	B/G/B	18 G/Y FL_FLASHER		Connector No. M24 Connector Name COMBINATION METER	Connector Color WHITE	H.S.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	Terminal No Color of Signal Name	Wire W/L		3 B GND (POWER)	4 B GND (ILL)	21 L CAN-H	22 P CAN-L	23 B GND (CIRCUIT)	
Connector No. M16 Connector Name BCM (BODY CONTROL MODULE) Connector Color BLACK	Terminal No. Wire Signal Name 1 W/B BAT_POWER_F/L				Connector Name BCM (BODY CONTROL	Connector Color BLACK	是 H.S.	73 78 77 77 78 75 74 73 72 71 70 69 68 67 66 66 64 63 62 61 60 60 60 60 60 60 60 60 60 60 60 60 60	Color of S.	TS DV OITBITS	R/G OUTP	5 0		95 R/W OUTPUT 1	96 P/B OUTPUT 4	97 R/B OUTPUT 2	98 G/O H

< WIRING DIAGRAM >

Connector No. E2 Connector Name WIRE TO WIRE Connector Color WHITE	Terminal No. Color of Signal Name 3 SB	A B C
NNECTOR-M02	gnal Name	F G
ctor No. M63 ctor Name JOINT CO ctor Color BLUE	Color of Wire S S S S S S S S S S S S S S S S S S S	H
Com		J
A ZARD SWITCH IITE	Signal Name Signal Name B	EX
Connector No. M54 Connector Name HAZARD SWITCH Connector Color WHITE	Terminal No. Wire Signa Wire Connector No. E30 HAZA Connector No. E30 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE Tig 26 46 56 66 50 36 46 56 66 66 66 66 66 66 66 66 66 66 66 66	N
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Revision: June 2012 EXL-145 2011 Altima GCC

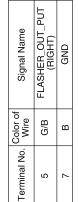
	REAR COMBINATION LAMP LH	TE	2 H 3 1	Signal Name	FLASHER OUT PUT
. B30		lor WHI	9	Color of Wire	9
Connector No.	Connector Name	Connector Color WHITE	南 H.S.	Terminal No.	8

		B30 REAR COMBINATION LA LH WHITE	Connector No. Connector Name Connector Color
Connector Color WHITE	Connector No. B30 Connector Name REAR COMBINATION LAM	5	
Connector Color WHITE		REAR COMBINATION LA	Connector Name
Connector Name REAR COMBINATION LAN LA Connector Color WHITE		B30	Connector No.



E224	Connector Name FRONT COMBINATION LAMP RH	GRAY	
Connector No.	Connector Name	Connector Color GRAY	



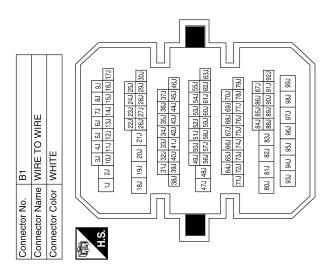


Signal Name	-	I	Ι	I	
Color of Wire	B/W	В	G	BR	
Terminal No. Wire	1.1	2J	91	15J	

Connector No.	E217
Connector Name	Connector Name FRONT COMBINATION LAMP LH
Connector Color GRAY	GRAY
原 H.S.	

	Signal Name	FLASHER OUT P (LEFT)	GND	
Ŋ	Color of Wire	G/Y	В	
E.S.	Terminal No.	5	7	

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< WIRING DIAGRAM >

Connector No. D2	Connector No. D102 Connector Name WIRE TO WIRE Connector Color WHITE H.S. E	A B C D
Connector No. D1 Connector Name WIRE TO WIRE Connector Color WHITE	Connector No. D101 Connector Name WIRE TO WIRE Connector Color WHITE 4 8 2 1 10 9 8 7 6 5 5 B	F G H
Connector No. B45 Connector Name REAR COMBINATION LAMP Connector Color WHITE Terminal No. Color of (F 4 3) Terminal No. Wire 3 BR FLASHER OUT PUT 5 B GND	Connector No. D4 Connector Name DOOR MIRROR LH Connector Color WHITE H.S. R 2 1 R 3 2 1 R 3 2 1 R 3 2 1 R 3 2 1 R 3 2 1 R 3 2 1 R 3 2 1 R 3 2 1 R 3 2 1 R 4 3 2 1 R 5 5 R 7 TURN(+) R B TURN(+)	EXL M

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Revision: June 2012 **EXL-147** 2011 Altima GCC

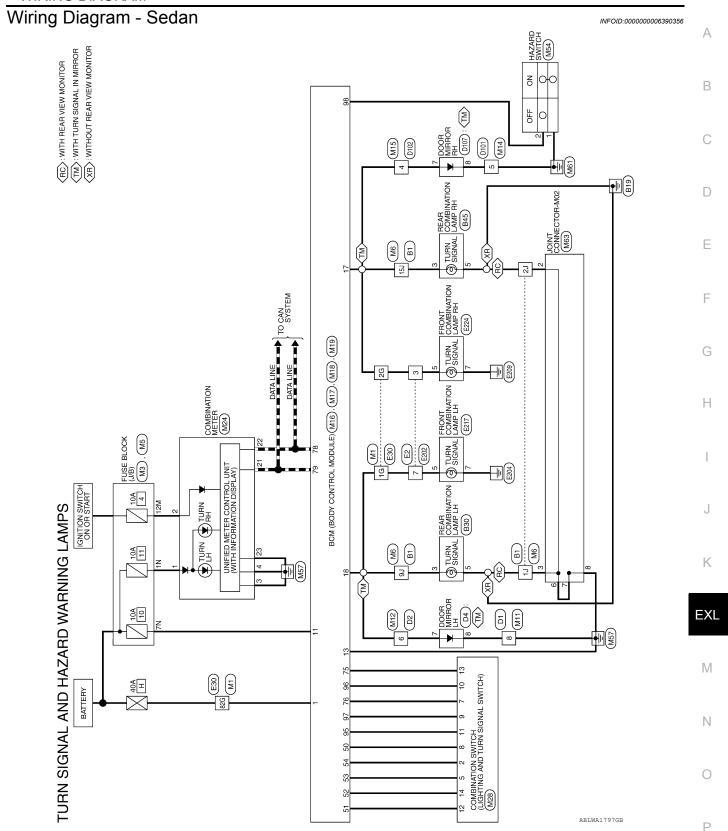
D107	Connector Name DOOR MIRROR RH	WHITE
Connector No.	Connector Name	Connector Color WHITE



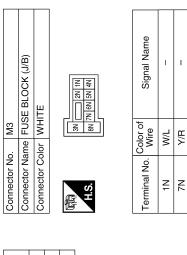


Signal Name	TURN(+)	TURN(-)	
Color of Wire	Μ	В	
Terminal No.	7	8	

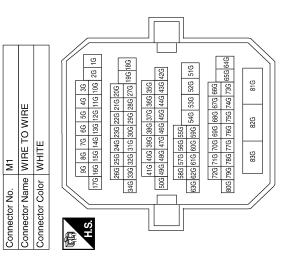
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TURN SIGNAL AND HAZARD WARNING LAMPS CONNECTORS



Signal Name	ı	1	I	
Color of Wire	G/Y	G/B	M/B	
Terminal No.	16	2G	82G	



Connector No.	M5
Connector Name	Connector Name FUSE BLOCK (J/B)
Connector Color WHITE	WHITE

	Connector Name FUSE BLOCK (J/B)	ITE	5M 4M	Signal Name	-
<u> </u>	me FUS	lor WH	5M 4M	Color of Wire	0
	Connector Na	Connector Color WHITE	क्रित H.S.	Terminal No.	12M

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< WIRING DIAGRAM >

Connector No. M11	Connector No. M15 Connector Name WIRE TO WIRE Connector Color WHITE Terminal No. Color of Signal Name 4 G/B	A B C D
		F
Signal Name	O WIRE Signal Name	G
Color of Wire B B B B CAPY	Ame WIRE TO Slor WHITE Slor of Wire B	Н
20 10 20 90 150	Connector No. M14 Connector Name WIRE TO WIRE Connector Color WHITE Terminal No. Color of Signal S B B	J
33 22 1.1 150 183 183 183 183 183 183 183 183 183 183		K
11 10 10 11 10	WIRE 14 15 16 16 17 8 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	EXI
Connector No. M6 Connector Name WIRE TO WIRE Connector Color WHITE Sul Sul 71 Sul 24 31 Sul Sul 12 11 11 Sul Sul Sul 21 12 11 11 Sul Sul		M
Connector No. M6 Connector Name WIRE T Connector Color WHITE AS 224 AS 224	Connector No. M12 Connector Name WIRE T Connector Color WHITE H.S. 1 2 4 4 9 10 11 12 5 4 4 10 11 12 5 6 6 G/V	Ν
Connector Na. Connector Na. H.S.	Connector No. Connector Colo Connector Colo H.S. Terminal No. 6	0
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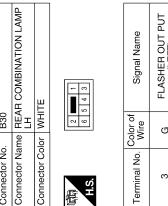
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Connector No. M18 BCM (BODY CONTROL MODULE) Connector Color GREEN Connector Color Connector Color Connector Color Connector Color Connector Color Co	Connector No. M28
Connector No. M17	Connector No. M24
Connector No. M16 Connector Name BCM (BODY CONTROL MODULE) Connector Color BLACK H.S. Terminal No. Color of Signal Name 1 W/B BAT_POWER_F/L	Connector No. M19 M19 Connector Name BCM (BODY CONTROL MODULE) Connector Color BLACK MODULE) Connector Color Color of Signal Name Tolor Color of Signal Name Tolor Color of Signal Name Tolor Color of Connector Color of Color of Connector Color of Connector Color of Connector Color of Connector Connector Color of Connector C

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Connector No. E2 Connector Name WIRE TO WIRE Connector Color WHITE	Color of Wire SB Y Y	Terminal No. Wire Signal Name 3 G/B	
Connector Name JOINT CONNECTOR-M02 Connector Color BLUE	Terminal No. Color of Signal Name 2 B		
Connector No. M54 Connector Color WHITE M54 Connector Color WHITE	Terminal No. Color of Signal Name 1	18C 19G 27/G 28/G 28/G 30G 31G 32G 33G 34G 3	

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Connector No	B30
Connector Name	Connector Name REAB COMBINATION LAMP
	LH
Connector Color WHITE	WHITE



Signal Name	FLASHER OUT PU (LEFT)	GND (WITH REAI	GND (WITHOUT RE VIEW MONITOR
Color of Wire	Э	B/W	В
Terminal No. Wire	3	5	5

E224	Connector Name FRONT COMBINATION LAMP RH	3RAY SRAY	
Connector No.	Connector Name	Connector Color GRAY	



Signal Name	FLASHER_OUT_PUT (RIGHT)	GND
Color of	G/B	В
Terminal No.	2	7

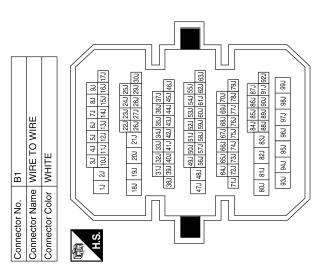
GND

В

^

FLASHER_OUI_PUI (RIGHT)	GND		Signal Name	1	ı	ı	
g/B	В		Color of Wire	B/W	В	g	aa
വ	7		Terminal No. Wire	11	23	60	15.

Oly rotogaco	E047	
		,
Connector Name	ame FRC LAN	FRONT COMBINATION LAMP LH
Connector Color	olor GRAY	٨t
H.S.		
Terminal No.	Color of Wire	Signal Name
5	G/Y	FLASHER OUT PUT (LEFT)



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< WIRING DIAGRAM >

Connector No. D2	Connector No. D102 Connector Name WIRE TO WIRE Connector Color WHITE A. M. Color of Signal Name 4 W -	A B C D
Connector No. D1 Connector Name WIRE TO WIRE	Connector No. D101 Connector Name WIRE TO WIRE Connector Color WHITE A.3 T S S S S S S S S S S S S S S S S S S	F G H
tor No. B45 stor Name REAR COMBI RH stor Color WHITE 2	Connector No. D4 Connector Name DOOR MIRROR LH Connector Color MHITE Terminal No. Wire Signal Name 7 GR TURN(+) 8 B TURN(+)	M N O

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Revision: June 2012 EXL-155 2011 Altima GCC







Signal Name	TURN(+)	TURN(-)
Color of Wire	Μ	В
Terminal No.	7	8

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PARKING, LICENSE PLATE AND TAIL LAMPS Α Wiring Diagram - Coupe INFOID:0000000006390357 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (E17), (E18), JOINT CONNECTOR-E04 (E22) В С JOINT CONNECTOR-E03 (E21) D E30 M1 15A 42 CPU Е 15A 43 FRONT COMBINATION LAMP RH (E236) F PARKING FRONT COMBINATION LAMP LH (E235) (a) PARKING 10A 46 TAIL LAMP RELAY JOINT CONNECTOR-T02 (T9) JOINT CONNECTOR-T01 T5 Н JOINT CONNECTOR-B06 B21 47 47 -W B48 H B48 E LICENSE PLATE LAMP LH T6 J JOINT CONNECTOR-M02 M63 FUSE BLOCK (J/B) (M3), (M5), (B4), (E6) PARKING, LICENSE PLATE AND TAIL LAMPS K TAIL (2 REAR COMBINATION LAMP LH B30 - [](2) EXL COMBI-NATION METER (M24) M6 M IGNITION SWITCH ON OR START **₽** BCM (BODY CONTROL MODULE) (M16) (M17) (M18) (M19) COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) (M28) TAIL Ν 10A 10A 0 82G M1 **≨**⊟ BATTERY Р ABLWA1792GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No. M5 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	5M 4M 3M 2M 1M 1 M 1 M 1 M 1 M 1 M 1 M 2M 2	Terminal No. Wire Signal Name	12M O -							
Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	H.S. SN TN SN SN 4N	Terminal No. Wire Signal Name	1N W/L –	7N Y/R -						
RE TO WIRE	96 86 76 66 56 46 30 176 146	41G 40G 39G 38G 37G 36G 35G	1024 024 024 024 024 024 024 024	58G 57G 56G 55G 62G 61G 60G 59G 54G 53G 52G 51G	72G 71G 70G 69G 68G 67G 66G 79G 78G 77G 76G 75G 74G 73G 65G 64G	83G 82G 81G	Signal Name	ı	ı	1
tme WIF	96 86 76 66 176 166 156 146 130 266 256 246 236 346 336 336 316 336	416 46	3+ pe+ pnc	58G 57G 56G 55G 63G 62G 61G 60G 59G	72G 71G 70G 69G 80G 79G 77G 76G		Color of Wire	Ь	_	M/B
Connector No. M1 Connector Name WIRE TO WIRE Connector Color WHITE	品 H.S.					_//	Terminal No.	86	15G	82G

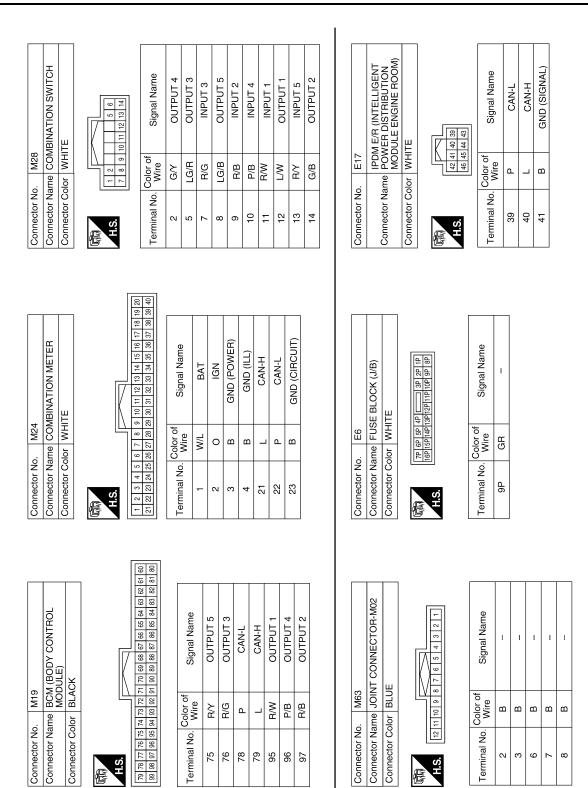
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< WIRING DIAGRAM >

Connector No. M16 Connector Name BCM (BODY CONTROL MODULE) Connector Color BLACK Terminal No. Wire Signal Name 1 W/B BAT_POWER_F/L	Terminal No. Color of Wire Signal Name 50 LG/B INPUT 5 51 L/W INPUT 2 52 G/B INPUT 2 53 LG/R INPUT 3 54 G/Y INPUT 4	A B C D
	OL 24 23 22 21 20 44 43 42 41 40	F
Signal Name	M18 MODULE) GREEN GREEN 1 22 51 50 49 48 47 46 45 44	G H
Color of Wire 1J B B 2J B	Nector Name nector Color nector S.	I
21 1.1 21 1.1 1.1 8.1 18.1 48.1 47.1 48.1 47.1 1 93.1 1 93.1		J K
M6	Connector No. M17 Connector Name BCM (BODY CONTROL MODULE) Connector Color WHITE 1 5 6 7 8 9 10 1 12 13 14 15 16 17 18 19 1 Y/R BAT_BCM_FUS 1 Y/R BAT_BCM_FUS	M
Connector Name Connector Color H.S.	Connector No. Connector Color Connector Color H.S. 11 11 13	0

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Connector No. E21 Connector Name JOINT CONNECTOR-E03 Connector Color WHITE H.S. Terminal No. Color of Signal Name 1 L 2 L	Terminal No. Color of Wire Signal Name 8G P - 15G L 82G LG 15G RZ - 15G RZ 15G RZ 15G RZ - 15G	A B C D
Terminal No. Wire Signal Name 7 GR TAIL/ILLUMI 12 B GND (POWER)	Connector No. E30 Connector Name WIRE TO WIRE Connector Color WHITE To a 4a 56 66 76 86 90 16 26 106 116 126 139 146 156 166 176 206 216 226 236 246 256 286 166 196 270 286 299 300 316 226 286 166 526 536 546 556 66 176 566 516 526 536 546 556 66 176 286 516 526 536 546 536 616 626 636 516 526 536 546 576 586 517 526 586 576 586 518 586 576 586 576 586 518 586 576 586 576 586 519 586 576 586 576 586 510 586 576 586 576 586 510 586 576 586 576 586 510 586 576 576 576 576 586 510 586 576 576 576 576 576 576 576 576 510 586 576 576 576 576 576 576 576 576 576 57	F G H
Connector No. E18 Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color WHITE H.S. A.S. A.S. B. T. B. T. TETELIGENT Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Tolor H.S. T. T	Connector No. E22 Connector Name JOINT CONNECTOR-E04 Connector Color WHITE Terminal No. Wire Signal Name 1 P	EXL M N O

Revision: June 2012 EXL-161 2011 Altima GCC

Connector No. E236 Connector Name FRONT COMBINATION LAMP RH Connector Color GRAY	Terminal No. Color of Wire Signal Name 10 G/B - 11 B -	Connector No. B4 Connector Name FUSE BLOCK (J/B) Connector Color BROWN Terminal No. Color of Signal Name 4T L L — —
Connector No. E235 Connector Name FRONT COMBINATION LAMP LH Connector Color GRAY H.S.	Terminal No. Color of Wire Signal Name 10 Y - 11 B -	Terminal No. Color of Signal Name 1J B/W - 2J B -
Connector No. E201 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color WHITE Seg 97 96 95 94 93 92 91 106 105 105 105 106 105 106 105 106 105 106 105 105 105 105 105 105 105 105 105 105	Terminal No. Color of Signal Name 91 LG/R CLEARANCE_RH 92 LG/B CLEARANCE_LH	Connector No. B1 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color Connector C

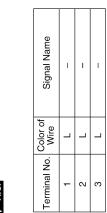
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me REAR CO RH Indr WHITE	Terminal No. Wire Signal Name 2 L TAIL LAMP 5 B GND	Connector No. T5 Connector Name JOINT CONNECTOR-T01 Connector Color WHITE MH.S.	Terminal No.	A B C D
3me REAR CO LH Nor WHITE 2 ■ 1 ■ 1 ■ 1 ■ 1 ■ 1 ■ 1 ■ 1 ■ 1 ■ 1 ■	Terminal No. Wire Signal Name 2 L TAIL LAMP 5 B/W GND	Connector No. T1 Connector Name WIRE TO WIRE Connector Color WHITE MH.S. R 7 6 5 4 3 2 11 R 7 6 5 4 13 12 11 10 9	Terminal No. Color of Signal Name 1 L	F G H
me JOINT CO lor BLUE	Terminal No. Color or Signal Name 7 L – – – – – – – – – – – – – – – – – –	Connector No. B48 Connector Name WIRE TO WIRE Connector Color WHITE M.S. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Terminal No. Color of Signal Name 1	EXL M N

EXL-163 2011 Altima GCC

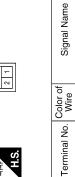
T9	Connector Name JOINT CONNECTOR-T02	WHITE	
Connector No.	Connector Name	Connector Color WHITE	



TAIL LAMP GND

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H.S.	
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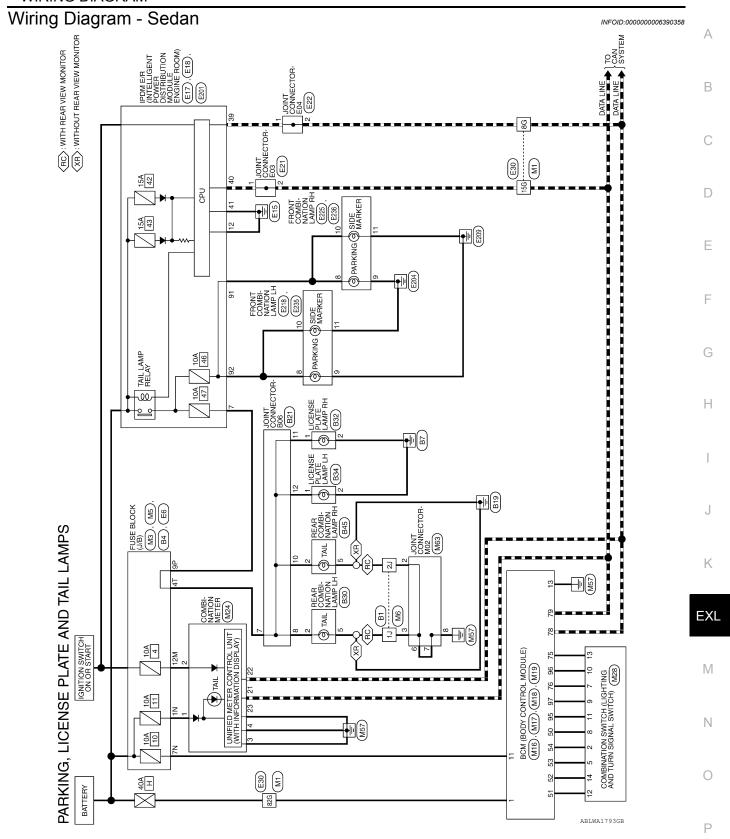
T6	Connector Name LICENSE PLATE LAMP LH	BROWN	
Connector No.	Connector Name	Connector Color BROWN	





GND	В	2
TAIL LAME	٦	1
Signal Nam	Color of Wire	Terminal No.

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PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No. M5 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	SM 4M	Terminal No. Color of Signal Name	12M O -							
Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Color WHITE		Terminal No. Wire Signal Name	1N W/L -	7N Y/R –						
M1 WIRE TO WIRE WHITE	90 80 70 60 56 40 30 10 10 10 20 10 10 20 10 10 30 20 10 10 20 10 10 20 10 10 20 10 10 20 10 10 20 10 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	41G 40G 39G 38G 37G 36G 35G	024	63G 62G 61G 60G 59G 54G 53G 52G 51G	726 716 706 886 886 876 866 806 796 786 776 786 756 746 736 866 846	83G 82G 81G	of Signal Name	ı	ı	1
Connector No. M1 Connector Name WII Connector Color WH	H.S. 9G 9G 9G 9G 9G 9G 9G 9	416	D D D D D D D D D D D D D D D D D D D	586 5	726 7 806 796 7		Terminal No. Wire	8G P	15G L	82G W/B

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1	Connector No. M16 Connector Name BCM (BODY CONTROL MODULE) Connector Color BLACK Terminal No. Wire Signal Name 1 W/B BAT_POWER_F/L	Terminal No. Color of Wire Signal Name 50 LG/B INPUT 5 51 L/W INPUT 1 52 G/B INPUT 2 53 LG/R INPUT 3 54 G/Y INPUT 4	A B C D
Number N	Color of Wire B B B	Connector No. M18 Connector Name BCM (BODY CONTROL MODULE) Connector Color GREEN H.S. 39 38 37 38 35 44 35 25 51 50 49 48 47 46 45 44 43 42 41 40	F G H
Conn Conn Conn Conn Conn Conn Conn Conn	Nector Name WIRE TO WIRE Name WIRE TO WIRE	M17 M17 M17 M17 M0DULE) M0DULE) M0DULE) M0DULE) M0DULE) M18 M1	K EXI

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Connector No. Connector Name Connector Color		M19 BCM (BODY CONTROL MODULE) BLACK	Connector No. Connector Name Connector Color	o. M24 ame COMBI	Connector No. M24 Connector Name COMBINATION METER Connector Color WHITE	Conn	Connector No. Connector Nan Connector Colc	Connector No. M28 Connector Name COMBII Connector Color WHITE	Connector No. M28 Connector Name COMBINATION SWITCH Connector Color WHITE	
H.S.			(6)			E.S.	Ø	7 8 9 10	11 12 14 14 14 14 14 14	
7	76 75 74 73 72 7 96 95 94 93 92 9	72 71 70 69 68 67 66 65 64 63 62 61 60 80 82 91 90 89 88 87 86 85 84 83 82 81 80	1 2 3 4 5 21 22 23 24 25	26 27 28 29	10 11 12 13 14 15 16 17 18 19 9 30 31 32 33 34 35 36 37 38 39	04 04	Terminal No.	Color of Wire	Signal Name	
	-						2	G/Y	OUTPUT 4	
Terminal No.	<u>ن</u> د	Signal Nar	Terminal No.	<u>ٽ</u> ر	Signal Name		2 2	LG/R	OUTPUT 3	
75			← (W/L	BAT		. &	LG/B	OUTPUT 5	
9/	5 0	CAN-I	N W	2 m	GND (POWER)		6	B/B	INPUT 2	
62	L _	1 - N O O	0 4	n c	GND (III)		10	P/B	INPUT 4	
95	A W	OUTPUT 1	. 21	<u> </u>	CAN-H		11	B/W	INPUT 1	
96	B/B	OUTPUT 4	55	ם ר	CAN-I		12	M	OUTPUT 1	
26	B/B	OUTPUT 2	3 8	. 6	GND (CIBCLIIT)		13	Ρ/Υ	INPUT 5	
							14	G/B	OUTPUT 2	
Connector No.	No. M63		Connector No.	o. E6		Conn	Connector No.	. E17		
Connector I	Vame JOII	Connector Name JOINT CONNECTOR-M02	Connector Name		FUSE BLOCK (J/B)	200	Connector Name		IPDM E/R (INTELLIGENT	
Connector Color	Solor BLUE	IE	Connector Color	olor WHITE	TE		ופכוסו ואמו		LE ENGINE ROOM)	
	<u>[</u>		€	7 d5 d9 d2		Conn	Connector Color	or WHITE	ш	
ς. 	12 11 10 9 8	8 7 6 5 4 3 2 1	H.S.	16P 15P 14P 1	<u>168 18P 13P 13P 11P 10P 9P 8P </u>	原 H.S.	Ø	42 41 40 46 45 44	43.88	
Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	Tem	Terminal No.	Color of Wire	Signal Name	
2	В	1	9P	GR	1		39	d	CAN-L	
ဇ	В	1					40		CAN-H	
9	В	1					41	В	GND (SIGNAL)	
7	В	1								
∞	В	ı								

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Connector No. E21 Connector Name JOINT CONNECTOR-E03 Connector Color WHITE	A B C D
	F
Signal Name TAIL/ILLUMI GND (POWER) S0 IRE TO WIRE HITE A16 56 66 76 96 176 156 17	100 200 210 220 230 240 250 250 240 250 250 240 250 250 240 250 250 240 250 250 240 250 250 240 250 250 240
Tall Signal Sig	27G 27G 22G 23G 24G 25G 28G 28G
38 36 36 36 40 36 40 40 40 40 40 40 40 40 40 40 40 40 40	9426
Terminal No. 7 7 12 12 September 12 12 Connector No. Conne	J
2031323334 204	К
	Signal Name
PIOWER DISTRIBUTE EN WHITE WHITE Tall 14 E22 JOINT CONN WHITE	M
ctor Name ctor No.	Color of Wire 2 P P A P A P A P A P A P A P A P A P A
Conne Conne Conne Conne	
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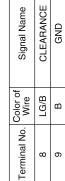
Connector No.	E225
Connector Name	Connector Name FRONT COMBINATION LAMP RH
Connector Color BLACK	BLACK





Terminal No. Wire	8 LG/R C	8 6	
Terminal	80	6	

E218	Connector Name FRONT COMBINATION LAMP LH	BLACK	
Connector No.	Connector Name	Connector Color BLACK	





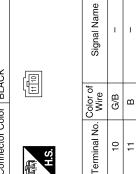
Terminal No. Vo	Color of Wire LG/B	Signa
,)

-	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	ITE	98 97 96 95 94 93 92 91 108 105 104 103 102 101 100 99	Signal Name	CLEARANCE_RH	CLEARANCE_LH
. E201		lor WH	98 97 96 9	Color of Wire	LG/R	LG/B
Connector No.	Connector Name	Connector Color WHITE	H.S.	Terminal No.	91	92



Connector No. E235
Connector Name FRONT COMBINATION
LAMP LH

Connector Color BLACK



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H.S.

Signal Name	I	1	
Color of Wire	Y	В	
Terminal No.	10	11	

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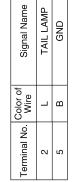
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Φ	E 0	В
MN Signal Name	Connector No. B32 Connector Name LICENSE PLATE LAMP RH Connector Color BROWN Terminal No. Wire Signal Name 1 L TAIL LAMP 2 B GND	С
B4 See Bi See B	Solor of Wire B B B B B B B B B B B B B B B B B B B	D
Connector No. B4	Connector No. Connector Color Connector Color Terminal No. 1 2	Е
		F
Signal Name	B30 LH WHITE WHITE Ir of Signal Name TAIL LAMP GND (WITH REAR WIEW MONITOR) GND (WITHOUT REAR VIEW MONITOR)	G
Sign	Sign Sign (VIEW (WITW CND (WITW VIEW VIEW VIEW VIEW VIEW VIEW VIEW VIE	Н
Color of Wire B/W B/W B	Colo Wildows	I
Terminal No.	Connector No. Connector Color Terminal No. Color 2	J
		K
B1	Connector No. B21 Connector Name JOINT CONNECTOR-B06 Connector Color BLUE LIST TO BLUE Terminal No. Wire Signal Name 7	EXL
Connector No. B1 Connector Name WIRE TO WIRE Connector Color WHITE 33 44 54 54 54 54 54 54 54 54 54 54 54 54	BLUE BLUE or of the property o	M
Connector No. B1 Connector Name WIRE T Connector Color WHITE To 21 101 To 2	or No. B21	Ν
Connector Na. Connector Col	Connector No. Connector No. Connector Color H.S. Terminal No. 8 8 10 11 11 12	0
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B45	Connector Name REAR COMBINATION LAMP RH	WHITE
Connector No.	Connector Name	Connector Color WHITE



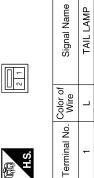


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Connector No B34	9	Connector Color BROWN
Conne		Conne



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STOP LAMP Α Wiring Diagram - Coupe INFOID:0000000006390359 В JOINT CONNECTOR-B06 (B21) С FUSE BLOCK (J/B) (E6), B4 2 D Е W257 REAR COMBINATION LAMP LH B30 B10 E29 F (SI) (B) (B) (B) (B) G Н J STOP LAMP SWITCH STOP LAMP SWITCH Κ EXL JOINT CONNECTOR S -E07 (E55) BATTERY \mathbb{N} Ν 0 STOP LAMP

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Connector No. E56 Connector Name JOINT CONNECTOR-E14 Connector Color WHITE	Terminal No. Color of Wire Signal Name 2 LG - 3 LG - 4 LG -	
Connector No. E55 Connector Name JOINT CONNECTOR-E07 Connector Color WHITE	Terminal No. Color of Signal Name 1 W 2 R 3 R 4 R R	Connector No. E58 Connector Name STOP LAMP RELAY-2 Connector Color BLUE
Connector No. E38 Connector Name STOP LAMP SWITCH (WITH M/T) Connector Color BLACK	Terminal No. Color of Signal Name 1 R - 2 LG -	Connector No. E57 Connector Name STOP LAMP RELAY-1 Connector Color BLUE #S. Terminal No. Color of Signal Name

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Connector No. B4 Connector Name FUSE BLOCK (J/B) Connector Color BROWN Signal Name ST O	Connector No. B27
Terminal No. Wire Signal Name 1. B.W - 2.J B - 8.J B -	Connector No. B21
Connector No. B1 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE Lu 2u 10u 11u 12u 13u 14u 15u 16u 17u 18u 19u 11u 12u 10u 11u 12u 13u 14u 15u 16u 17u 18u 19u 11u 12u 13u 13u 14u 15u 16u 17u 12u 13u 14u 15u 16u 17u 12u 13u 14u 15u 16u 17u 12u 13u 14u 16u 16u 16u 16u 16u 16u 16u 16u 16u 16	Connector No. B10 Connector No. B10 Connector Name WIRE TO WIRE Connector Color WHITE

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lo. B400	Connector Name WIRE TO WIRE	ALLIE COO.	() () () () () () () () () ()	Color of Signal Name Wire	- 0	В В
Connector No. B400	Connector N		H.S.	Terminal No. Wire	-	2
	AMP					
	Connector Name REAR COMBINATION LAMP RH	ITE	6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Signal Name	STOP LAMP	GND
. B45	me REA	lor WHI	0 9	Color of Wire	0	В
Connector No. B45	Connector Na	Connector Color WHITE	原.S.	Terminal No. Wire	1	2
	Name REAR COMBINATION LAMP	Щ	■ 4	Signal Name	STOP I AMP	
B30	me REAF LH	Color WHITE	0 0	No. Wire	С	B/W
Š	Na	ပို		Š.		

Connector No.). B401	
Connector Na	ıme HIGI	Connector Name HIGH-MOUNTED STOP LAMP
Connector Color WHITE	olor WHI	TE
所.S.		
Terminal No.	Color of Wire	Signal Name
-	0	STOP LAMP
٥	α	

GND	В	2
STOP LA	0	1
Signal Na	Color of Wire	Terminal No.

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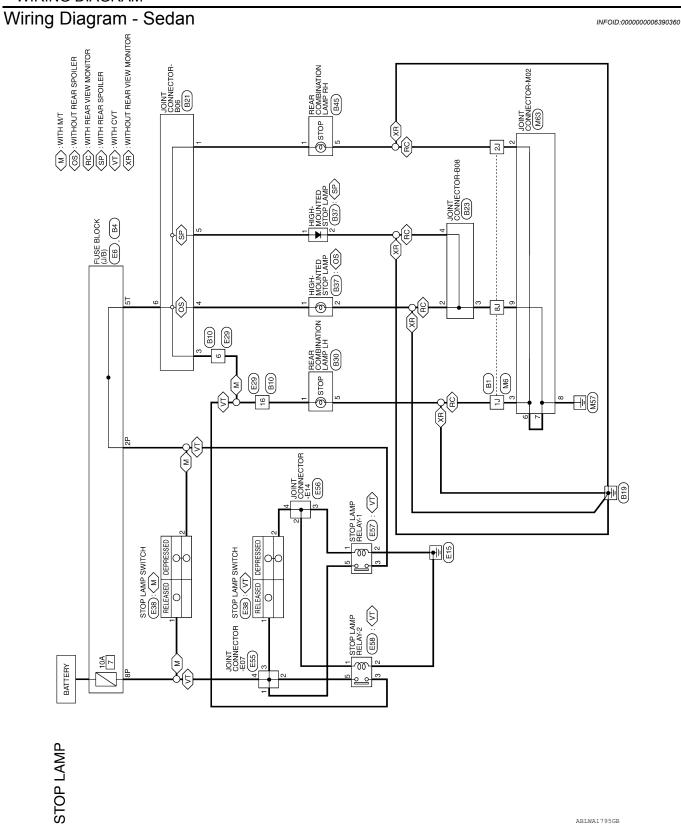
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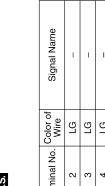
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EXL-177 2011 Altima GCC Revision: June 2012



	3 2 1	l Name						i c			Name				
	8 / L							38	IOP LAMP SV MITH CVT) HITE	(O) T					
	12 11 10 8	No. Wire	В	В	В	<u>а</u>	о <u>в</u>	or No.	or Name ()		No. Color	N M	: S		
ą.	中的 H.S.	Terminal	2	က	9	ν α	o o	Connecto	Connecto	H.S.	Terminal	-	- 0		
1 1									TO WIRE	4 13 12 11 10 9 8	Signal Name	1	1		
m a								. E29	ame WIRE	7 6 5 16 15 11	Color of Wire	0	>		
2 8	3							Connector No	Connector Na Connector Co	H.S.	Terminal No.	9	16		
			71												
	7.0 6.0 5.0 4.0 3.0 14.0 13.0 14.0 13.0 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	233 223 273 263 213 203 193 183			53 52 51 50 491	60J 59J 58J 57J 56J 48J 47J	38U 68J 67J 66J 65J 64J 77J 76J 75J 74J 73J 72J 71J		BLOCK (J/B)	3P 2P 1P P11P 10P 3P 8P	Signal Name	– (WITH M/T)	– (WITH CVT)		
	90 80	25J 24, 30J 29J 28J		460 450	55J 54J	630 620 610	790 780	o. E6	ame FUSE	SP 15P 14P 13P 12	Color of Wire	P	> ¤		
	मिर्म H.S.] [nnector N	nnector N	H.S.	minal No.	2P	2P 8P		
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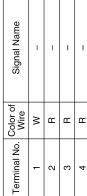
Connector No.	E56
Connector Name	Connector Name JOINT CONNECTOR-E14
Connector Color WHITE	WHITE





Signal Na	-	I	ļ
Color of Wire	ГС	ГG	PT
Terminal No.	2	3	4

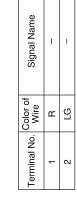


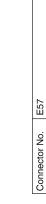






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Connector Name STOP LAMP RELAY-1







Connector Name STOP LAMP RELAY-2 Connector Color BLUE

Connector No. E58

Signal Nan	-	I	_	1
Color of Wire	ГG	В	Μ	œ
Terminal No. Wire	1	2	3	5

BLUE	- C C C C C C C C C C C C C C C C C C C
Connector Color	崎 H.S.



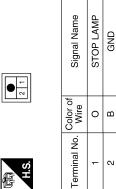


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Connector No. B4 Connector Name FUSE BLOCK (J/B) Connector Color BROWN Terminal No. Color of Signal Name 5T O -	Connector No. B23	A B C D
BW - Color of BW - BW	Connector No. B21 Connector Name JOINT CONNECTOR-B06 Connector Color BLUE 12 11 10 9 8 7 6 5 4 3 2 1 1	F G H
Connector No. B1	Connector No. B10 Connector Name WIRE TO WIRE	K EXL
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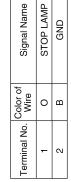
Revision: June 2012 EXL-181 2011 Altima GCC

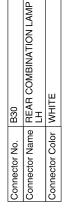
Connector No.	B37
Connector Name	Connector Name HIGH-MOUNTED STOP LAMP (WITH REAR SPOILER)
Connector Color BROWN	BROWN



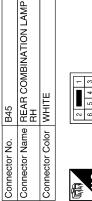


Connector No.	B37
Connector Name	Connector Name HIGH-MOUNTED STOP LAMP (WITHOUT REAR SPOILER)
Connector Color WHITE	WHITE
原 H.S.	









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0 9	Color of Wire	0	В
H.S.	Terminal No.	1	5

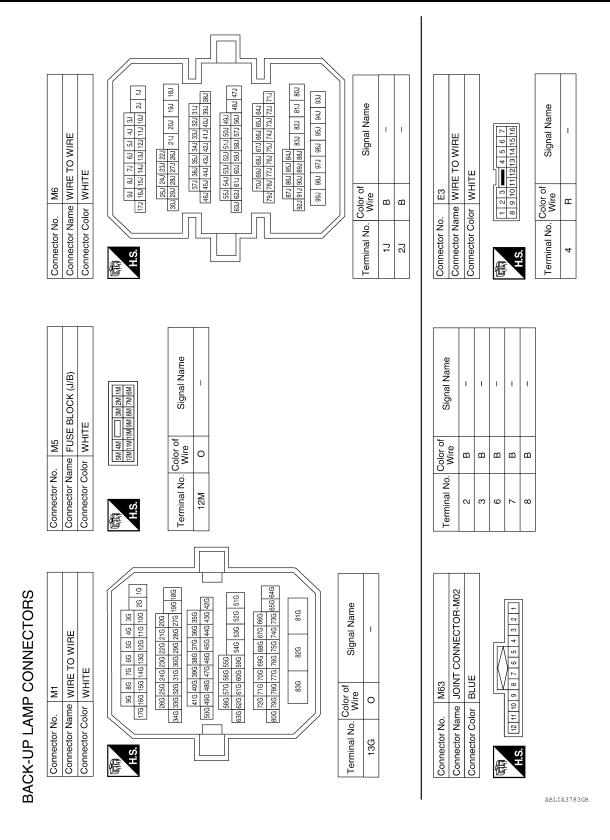
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< WIRING DIAGRAM > **BACK-UP LAMP** Α Wiring Diagram - Coupe INFOID:0000000006390361 (M):WITH M/T (VC): EXCEPT VQ35DE WITH CVT (VR):WITH VQ35DE AND CVT (VX):WITH QR25DE AND CVT В С D Е F G Н (B) BACK-UP LAMP SWITCH (F24) J OTHER K IGNITION SWITCH ON OR START EXL \mathbb{N} Ν **BACK-UP LAMP** 0

EXL-183 2011 Altima GCC Revision: June 2012

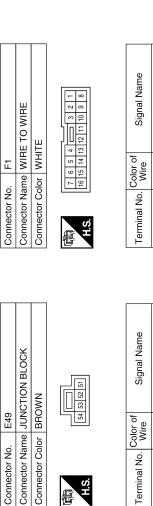
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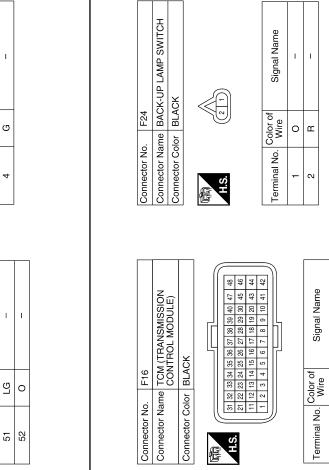
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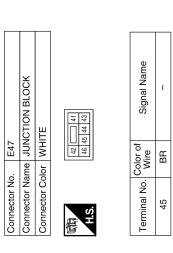


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Connector No. E34 Connector Name BACK-UP LAMP RELAY Connector Color of BLUE Terminal No. Wire Signal Name 1 0	С
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Connector No. Connector Name Connector Color H.S. H.S. 5 1	Е
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Signal Name	G
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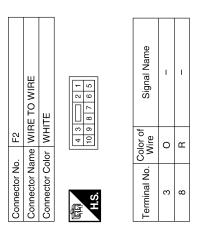






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Terminal No.



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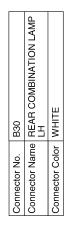
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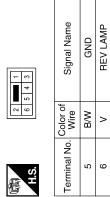
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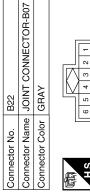
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Connector No. B10 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE Connector Color of Signal No. Wire 15 V	C D
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Connector No. F49 Connector Name JOINT CONNECTOR-F03 Connector Color BLACK Signal Name 1 BW - 2 B - 2 B - 2 B - - 2 B - - 2 B - - - - - - - - - - - - -	G H
Connector No. F49 Connector Name JOIN Connector Color of BLA Terminal No. Wire 3 R R 4 R 1J BW 2J B	J
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F25 E SWITCH Signal Name SWITCH Signal Name Si	EXL
Connector No. F25 Connector Name SWITCH Connector Color BLACK 3 O IGN 5 R R OUTPUT Connector No. B1 Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Color WHITE To 2 100 11/2 20 20 20 20 20 20 20	N
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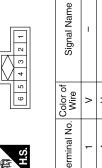
lo. B45	Connector Name REAR COMBINATION LAMP	Connector Color WHITE	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Connector No.	Connector N	Connector C	





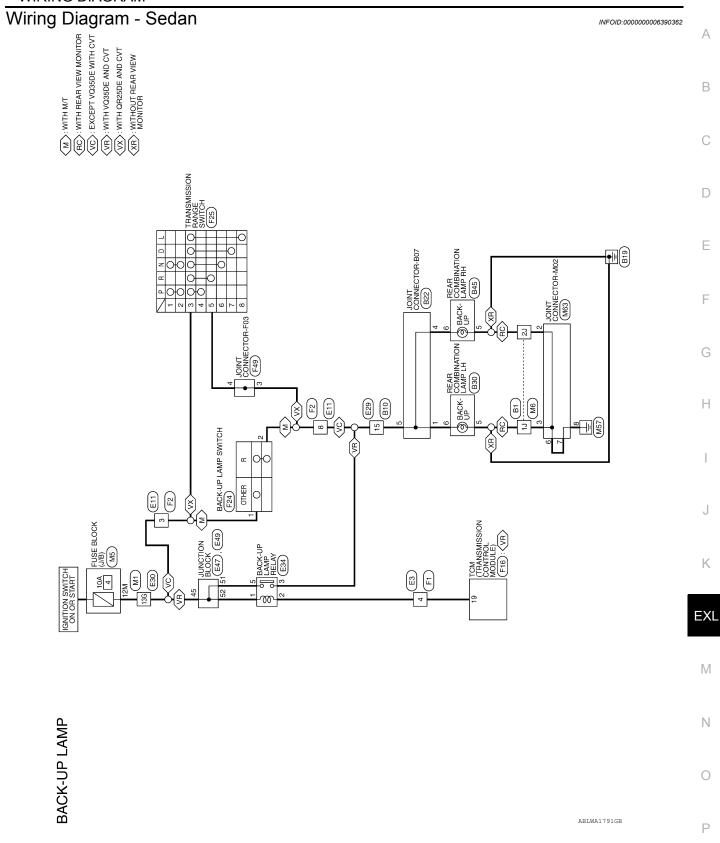


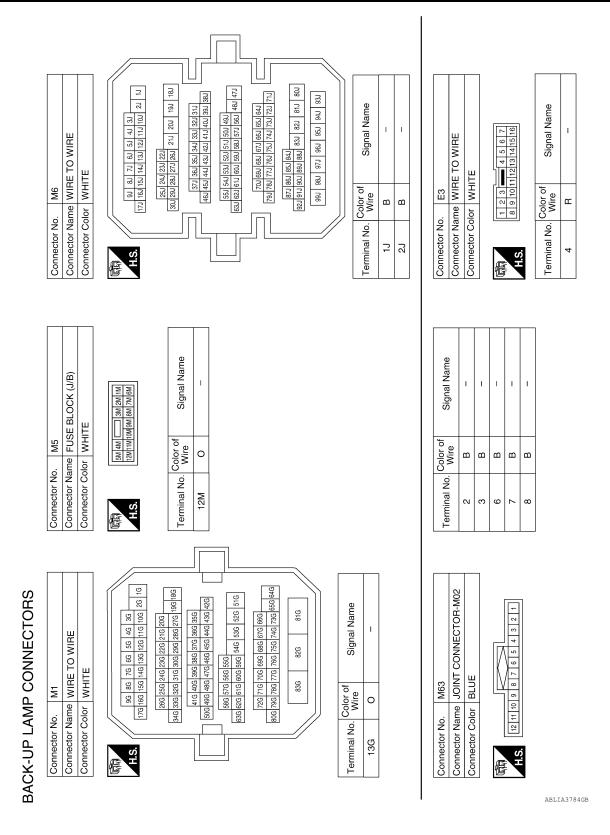




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Connector Name WIRE T	N
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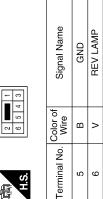
Revision: June 2012 EXL-191 2011 Altima GCC

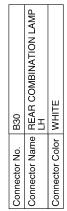
Connector No. Connector Name	No. E47 Name JUNCT	Connector No. E47 Connector Name JUNCTION BLOCK Connector Color WHITE	Connector No. E49 Connector Name JUNCTION BLOCK Connector Color BROWN	Connector No. F1 Connector Name WIRE TO WIRE Connector Color WHITE	
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Connector No. F2 Connector Name WIRE TO WIRE Connector Color WHITE	No. F2 Name WIRE T	IE TO WIRE	Connector No. F16 Connector Name TCM (TRANSMISSION CONTROL MODULE)	Connector No. F24 Connector Name BACK-UP LAMP SWITCH Connector Color BLACK	
原 H.S.	4 00 8 8 8 9	S	83 34 35 36 37 38 39 40 47 23 24 25 26 27 28 29 30 45 13 14 15 16 17 18 19 20 43	H.S.	
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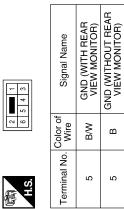
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Connector No. B10 Connector Name WIRE TO WIRE Connector Color WHITE	A B C
Connector No. F49 Connector Name JOINT CONNECTOR-F03 Connector Color BLACK Signal Name 3 R	F G H
Connector No. F25	Cap Cap

Connector No.	B45
Connector Name	Connector Name REAR COMBINATION LAMP RH
Connector Color WHITE	WHITE



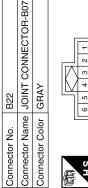


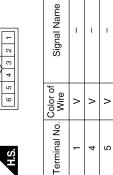


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EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

EXTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

CAUTION:

Perform the self-diagnosis with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

Symp	otom	Possible cause	Inspection item
Headlamp does not switch to the high beam.	One side	Fuse Harness between IPDM E/R and the front combination lamp Front combination lamp (High beam relay) IPDM E/R Headlamp ground	Headlamp (HI) circuit Refer to <u>EXL-36</u> .
	Both sides	Symptom diagnosis "BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM" Refer to EXL-198.	
High beam indicator lamp in (Headlamp switches to the		Combination meter BCM	Combination meter. Data monitor "HI-BEAM IND" BCM (HEAD LAMP) Active test "HEADLAMP"
	One side	Fuse Harness between IPDM E/R and the front combination lamp Front combination lamp IPDM E/R Headlamp ground	_
Headlamp does not switch to the low beam.	Both sides	Combination switch (lighting and turn signal switch) Harness between the combination switch (lighting and turn signal switch) and BCM BCM IPDM E/R	Combination switch (lighting and turn signal switch) Refer to BCS-37.
		High beam request signal BCM IPDM E/R	IPDM E/R Data monitor "HL HI REQ"
		IPDM E/R	_
Headlamp does not turn ON.	One side	Fuse Bulb Harness between IPDM E/R and the front combination lamp Front combination lamp IPDM E/R Headlamp ground	Headlamp (LO) circuit Refer to EXL-38 (halogen) or EXL- 39 (xenon).
	Both sides	Symptom diagnosis "BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer to EXL-199. "Description".	
Headlamp does not turn	When the ignition switch is turned ON	BCM Combination switch (lighting and turn signal switch)	Combination switch (lighting and turn signal switch) Refer to BCS-37.
Headlamp does not turn OFF.	The ignition switch is turned OFF (After activating the battery saver).	IPDM E/R	_

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EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

Symp	otom	Possible cause	Inspection item
Headlamp is not turned ON/OFF with the Combination switch (lighting and turn signal switch) in AUTO.		Combination switch (lighting and turn signal switch) Harness between the combination switch and BCM BCM	Combination switch (lighting and turn signal switch) Refer to <u>BCS-37</u> .
		Optical sensor Harness between the optical sensor and BCM BCM	Optical sensor Refer to <u>EXL-55</u> .
Front fog lamp is not turned ON (if equipped).	One side	Front fog lamp bulb Harness between IPDM E/R and the front fog lamp Front fog lamp IPDM E/R Front fog lamp ground	Front fog lamp circuit Refer to EXL-43.
	Both side	Symptom diagnosis "BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON" Refer to EXL-201.	
Parking lamp is not turned ON.	One side	Fuse Parking lamp bulb Harness between IPDM E/R and the front/rear combination lamp Front/rear combination lamp IPDM E/R Parking lamp ground	Parking lamp circuit Refer to <u>EXL-45</u> .
	Both sides	Symptom diagnosis "PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON" Refer to EXL-200.	
Turn signal lamp does not blink.	Indicator lamp is normal. (The applicable side performs the high flasher activation).	Harness between BCM and each turn signal lamp Turn signal lamp bulb Door mirror (if equipped with turn signals in the door mirrors)	Turn signal lamp circuit Refer to EXL-48.
	One side	Combination meter	_
Turn signal indicator lamp does not blink.	Both sides (Always)	Turn signal indicator lamp signal Combination meter BCM	Combination meter. Data monitor "TURN IND" BCM (FLASHER) Active test "FLASHER"
	Both sides (Does blink when activating the hazard warning lamp with the ignition switch OFF)	The combination meter power supply and the ground circuit Combination meter	Combination meter Power supply and the ground circuit Refer to MWI-33.
One or multiple stop lamps do not illuminate		Harness between BCM and each stop lamp Stop lamp bulb Stop lamp switch	Stop lamp circuit Refer to EXL-51.
 Hazard warning lamp does not activate. Hazard warning lamp continues activating. (Turn signal is normal) 		Hazard switch Harness between the hazard switch and BCM BCM	Hazard switch Refer to EXL-58.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description A

XENON HEADLAMP

- The brightness and color of the light may vary slightly immediately after turning the headlamp ON. This condition will remain until the xenon bulb becomes stable. This is normal.
- Illumination time lag may occur between right and left. This is normal.

AUTO LIGHT SYSTEM

The auto light system may not turn the headlamp ON/OFF immediately after passing a dark area or a bright area (short tunnel, sky bridge, shadowed area etc.). This is normal.

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BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

< SYMPTOM DIAGNOSIS >

BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

Description INFOID:000000006390368

The headlamps (both sides) do not switch to high beam when the combination switch (lighting and turn signal switch) is in the HI or PASS setting.

Diagnosis Procedure

INFOID:0000000006390366

1.combination switch (lighting and turn signal switch) inspection

Check the combination switch (lighting and turn signal switch). Refer to BCS-37.

Is the combination switch (lighting and turn signal switch) normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

®CONSULT DATA MONITOR

- 1. Select "HL HI REQ" of IPDM E/R DATA MONITOR item.
- 2. With operating the combination switch (lighting and turn signal switch), check the monitor status.

Monitor item	Condition		Monitor status
	Combination	HI or PASS	ON
HL HI REQ	switch (lighting and turn signal switch) (2ND)	Except for HI or PASS	OFF

Is the item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-92, "Removal and Installation".

3.HEADLAMP (HI) CIRCUIT INSPECTION

Check the headlamp (HI) circuit. Refer to EXL-36, "Description".

Is the headlamp (HI) circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-45, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

Description

The headlamps (both sides) do not turn ON in any combination switch (lighting and turn signal switch) setting.

Diagnosis Procedure

1. CHECK COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH)

Check the combination switch (lighting and turn signal switch). Refer to BCS-37.

Is the combination switch (lighting and turn signal switch) normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT

©CONSULT DATA MONITOR

1. Select "HL LO REQ" of IPDM E/R DATA MONITOR item.

2. With operating the combination switch (lighting and turn signal switch), check the monitor status.

Monitor item	Condition		Monitor status
	Combination	2ND	ON
HL LO REQ	switch (lighting and turn signal switch)	OFF	OFF

Is the item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-92, "Removal and Installation".

3.HEADLAMP (LO) CIRCUIT INSPECTION

Check the headlamp (LO) circuit. Refer to <u>EXL-38</u>, "<u>HEADLAMP (HALOGEN)</u>: <u>Description</u>" (halogen) or <u>EXL-39</u>, "<u>HEADLAMP (XENON)</u>: <u>Description</u>" (xenon).

Is the headlamp (LO) circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-45, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON

Description INFOID.000000006390369

The parking, license plate and tail lamps do not turn ON in with any combination switch (lighting and turn signal switch) setting.

Diagnosis Procedure

INFOID:0000000006390370

1.combination switch (Lighting and turn signal switch) inspection

Check the combination switch (lighting and turn signal switch). Refer to BCS-37.

Is the combination switch (lighting and turn signal switch) normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part.

2.CHECK TAIL LAMP RELAY REQUEST SIGNAL INPUT

(P)CONSULT DATA MONITOR

- I. Select "TAIL & CLR REQ" of IPDM E/R DATA MONITOR item.
- 2. With operating the combination switch (lighting and turn signal switch), check the monitor status.

Monitor item	Condition		Monitor status
TAIL O OLD	Combination	1ST	ON
TAIL & CLR REQ	switch (lighting and turn signal switch)	OFF	OFF

Is the item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-92, "Removal and Installation".

3.PARK LAMP CIRCUIT INSPECTION

Check the parking lamp circuit. Refer to EXL-45, "Description".

Is the tail lamp circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-45, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description INFOID:0000000006390371

The front fog lamps do not turn ON in any setting.

Diagnosis Procedure

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1. COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) INSPECTION

Check the combination switch (lighting and turn signal switch). Refer to BCS-37.

Is the combination switch (lighting and turn signal switch) normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part.

2.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

(P)CONSULT DATA MONITOR

- 1. Select "FR FOG REQ" of IPDM E/R DATA MONITOR item.
- 2. With operating the combination switch (lighting and turn signal switch), check the monitor status.

Monitor item	Condition		Monitor status
	Combination switch	ON	ON
FR FOG REQ	(lighting and turn signal switch) (Lighting switch 2ND)	OFF	OFF

Is the item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-92, "Removal and Installation".

3.FRONT FOG LAMP CIRCUIT INSPECTION.

Check the front fog lamp circuit. Refer to EXL-43, "Description".

Is the front fog lamp circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-45, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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Revision: June 2012 EXL-201 2011 Altima GCC

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precautions Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:0000000006390374

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.

PRECAUTIONS

< PRECAUTION >

- When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- Perform self-diagnosis check of all control units using CONSULT.

General precautions for service operations

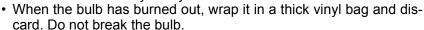
Never work with wet hands.

 The xenon headlamp system includes a high voltage generating part. Be sure to disconnect battery negative cable (negative terminal) or power fuse before removing, installing, or touching the xenon headlamp (including lamp bulb).

- Turn the lighting switch OFF before disconnecting and connecting the connector.
- When turning the xenon headlamp on and while it is illuminated, never touch the harness, bulb, and socket of the headlamp.
- When checking the headlamp on/off operation, check it on vehicle and with the power connected to the vehicle-side connector.

 Do not touch the headlamp bulb glass surface with bare hands or allow oil or grease to get on it. Do not touch the headlamp bulb just after the headlamp is turned off, because it is very hot.

 Install the xenon headlamp bulb socket correctly. If it is installed improperly, high-voltage leak or corona discharge may occur that can melt the bulb, connector, and housing. Do not illuminate the xenon headlamp bulb out of the headlamp housing. Doing so can cause fire and harm your eyes.



 Leaving the bulb removed from the headlamp housing for a long period of time can deteriorate the performance of the lens and reflector (dirt, clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

 When adjusting the headlamp aiming, turn the aiming adjustment screw only in the tightening direction. (If it is necessary to loosen the screw, first fully loosen the screw, and then turn it in the tightening direction.)

Do not use organic solvent (paint thinner or gasoline) to clean lamps and to remove old sealant.

Precaution for Work

 When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.

 When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.

Protect the removed parts with a shop cloth and prevent them from being dropped.

Replace a deformed or damaged clip.

- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components.
- Water soluble dirt: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the dirty

Then rub with a soft and dry cloth.

Oily dirt: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the dirty area.

Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.

Do not use organic solvent such as thinner, benzene, alcohol, or gasoline.

For genuine leather seats, use a genuine leather seat cleaner.

WARNING - XENON HEADLAMP TO AVOID DEATH OR SERIOUS PERSONAL INJURY FROM ELECTRICAL SHOCK: DO NOT TOUCH THE BULB SOCKET'S OR CABLES BEFORE POWER SWITCH IS TURNED OFF DISCONNECT THE POWER SOURCE HIGH CONNECTOR BEFORE CHANGING THE VOLTAGE NISSAN DISCHARGE BULBS.

WARNING 傷害となる感電の恐れがあるので、下記を守って下さい。 ・電源スイッチをOFFにしてから電源コネクタを脱着して下さい ・分解したり、回路やハーネスを改造しないで下さい。 ・電気テスターを用いて回路診断をしないで下さい。 TO AVOID DEATH OR SERIOUS PERSONAL NUMY FROM ELECTRICAL SHOCK:
CONNECTORS BEFORE THE POWER SWITCH IS TURNED OFF.
DO NOT DISASSEMBLE THIS DEVICE.
DO NOT CHECK THE CIRCUIT USING AN ELECTRICAL TESTER. 高電圧 NISSAN XENON LAMP BALLAST parts no.SCB26 aus 110.50.826 LIGHT SOURCE: D2S • D2R 2000Hr INPUT VOLTAGE: DC13.5V OUTPUT VOLTAGE: POWER: 85V.35W OPEN CIRCUIT VOLTAGE: 400V (Vpeak:25.000volts) DOT STANLEY ELECTRIC CO.,LTD

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EXL-203 Revision: June 2012 2011 Altima GCC

PERIODIC MAINTENANCE

HEADLAMP

Aiming Adjustment

INFOID:0000000006390376

PREPARATION BEFORE ADJUSTING

NOTE:

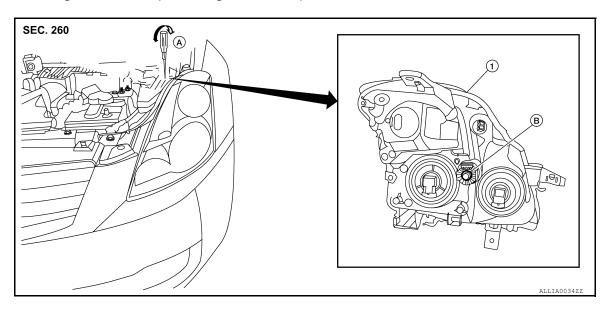
- · For details, refer to the regulations in your area.
- Perform aiming adjustment if the vehicle front body has been repaired and/or the front combination lamp assembly has been replaced.

Before performing aiming adjustment, check the following.

- Adjust the tire pressure to specification.
- Position vehicle and screen on level surface.
- Ensure there is no load in vehicle other than the driver (or equivalent weight placed in driver's position).
- Ensure engine coolant and engine oil are filled to correct levels and fuel tank is full.
- Confirm spare tire, jack and tools are properly stowed.
- · Wipe off dirt on the headlamp.

CAUTION:

Never use organic solvent (thinner, gasoline etc.).



1. Front combination lamp

A. Suitable tool (for aiming adjustment) B. Adjusting screw

Aiming Adjustment procedure

Position the screen.

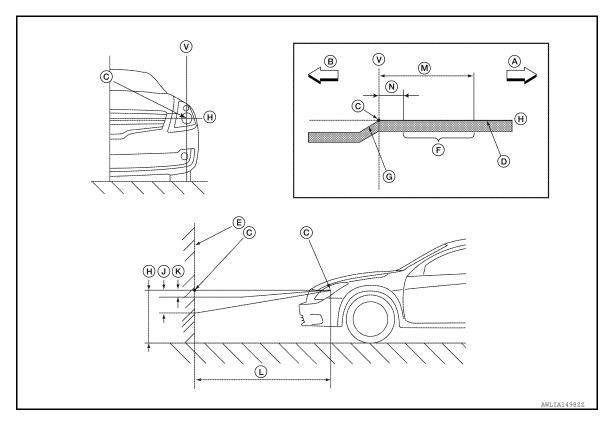
NOTE:

- Stop the vehicle facing the screen.
- · Place the screen on a plain road vertically.
- 2. Face the screen with the vehicle. Maintain 7.62 m (25 ft) between the headlamp bulb center and the screen.
- 3. Start the engine. Turn the headlamp (LO) ON.

CAUTION:

Never cover the lens surface with tape, etc. The lens is made of resin. NOTE:

- Aim each headlamp individually and ensure other headlamp beam pattern is blocked from screen.
- For horizontal aiming, adjust headlamp until beam pattern is at horizontal center point.



- A. Right
- D. Cutoff line
- G. Step
- N. 133 mm (5.24 in)
- B. Left
- E. Screen
- H. Horizontal center line of head lamp
- K. -13.3 mm (-0.52 in)
- 7.62 m (25 ft)
 - V. Vertical center line of headlamp
- C. Center of headlamp bulb (H-V point)
- Aim evaluation segment
- J. 53.2 mm (2.09 in)
- M. 399 mm (15.71 in)
- · Basic illuminating area for adjustment should be within the range shown on the aiming chart. Adjust headlamps accordingly.

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FRONT FOG LAMP

Aiming Adjustment

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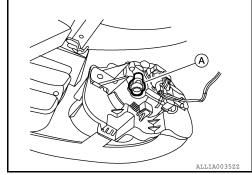
NOTE:

The fog lamp is a semi-sealed beam type which uses a replaceable halogen bulb. Before performing aiming adjustment, make sure of the following.

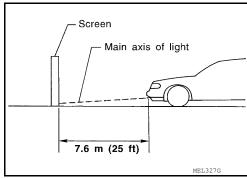
- Keep all tires inflated to correct pressure.
- Place vehicle on level ground.
- See that vehicle is unloaded (except for full levels of coolant, engine oil and fuel, and spare tire, jack, and tools). Have the driver or equivalent weight placed in driver seat.
- 1. Adjust aiming in the vertical direction by turning the adjusting screw (A).

NOTE:

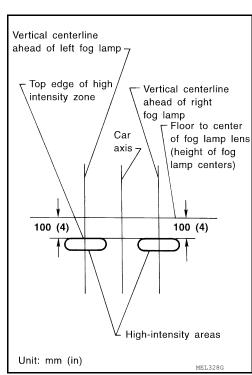
When performing adjustment, if necessary, cover the headlamps and opposite fog lamp.



- 2. Set the distance between the screen and the center of the fog lamp lens as shown.
- 3. Turn front fog lamps ON.



- 4. Adjust front fog lamps using adjusting screw so that the top edge of the high intensity zone is 100 mm (4 in) below the height of the fog lamp centers as shown.
 - When performing adjustment, if necessary, cover the headlamps and opposite fog lamp.



REMOVAL AND INSTALLATION

HEADLAMP

Bulb Replacement

INFOID:0000000006390378

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HEADLAMP

CAUTION:

 Do not touch the glass of bulb directly by hand. Keep grease and other oily substances away from bulb. Do not touch bulb by hand while it is lit or right after being turned off, burning may result.

Removal

- 1. Disconnect negative battery terminal (xenon only).
- Position the fender protector aside. Refer to EXT-46, "Removal and Installation" (sedan) or EXT-22, "Removal and Installation" (coupe).
- Turn the headlamp bulb sockets counterclockwise to unlock and remove them (halogen).
- Remove the plastic cover, disconnect the ignitor, unlock the retaining spring to unlock and remove the bulb (xenon only).
- Turn the high beam lamp bulb socket counterclockwise to unlock and remove it.

Installation

CAUTION:

After installing the headlamp bulb, be sure to install the plastic cap securely to ensure watertightness. Installation is in the reverse order of removal.

SIDE MARKER LAMP

Removal

- Position the fender protector aside. Refer to EXT-46, "Removal and Installation" (sedan) or EXT-22, "Removal and Installation" (coupe).
- Turn the bulb socket counterclockwise to unlock it.
- Pull the side marker bulb to remove it.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing a headlamp bulb, be sure to install the bulb socket securely to ensure watertightness.

FRONT PARK/TURN SIGNAL LAMP

Removal

- Position the fender protector aside. Refer to EXT-46, "Removal and Installation" (sedan) or EXT-22, "Removal and Installation" (coupe).
- Turn the bulb socket counterclockwise to unlock it.
- Pull the front park/turn signal bulb to remove it.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing the bulb, be sure to install the bulb socket securely to ensure watertightness.

Removal and Installation

INFOID:0000000006390379

FRONT COMBINATION LAMP

Removal

- Disconnect battery negative terminal (xenon only).
- Remove the front bumper fascia. Refer to EXT-16, "Removal and Installation Coupe", EXT-40, "Removal and Installation" (sedan).
- Ensure lighting switch is OFF.

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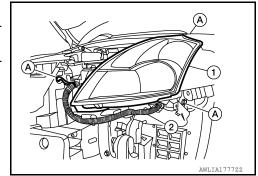
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EXL-207 Revision: June 2012 2011 Altima GCC

HEADLAMP

< REMOVAL AND INSTALLATION >

- 4. Remove the front combination lamp bolts (A).
- 5. Pull the front combination lamp (1) toward the front of the vehicle.
- 6. Disconnect the bulb connectors, then remove the front combination lamp harness (2) from the front combination lamp (1).



Installation

Installation is in the reverse order of removal.

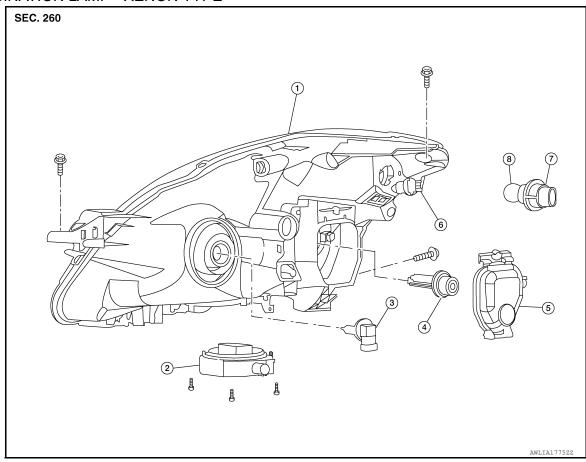
NOTE:

Confirm headlamp aiming adjustment. Refer to EXL-204, "Aiming Adjustment".

Disassembly and Assembly

INFOID:0000000006390380

COMBINATION LAMP - XENON TYPE



- 1. Front combination lamp
- 4. Xenon bulb
- 7. Front park/turn signal lamp bulb socket
- Ballast
- 5. Plastic cover
- Front park/turn signal lamp bulb
- 3. Halogen bulb (high beam)
- 6. Side marker lamp bulb

Disassembly

WARNING:

Do not touch bulb while it is lit or right after being turned off, burning may result. **CAUTION**:

Do not touch the glass of the bulb directly by hand. Keep grease and other oily substances away from bulb.

HEADLAMP

< REMOVAL AND INSTALLATION >

- Remove the plastic cover, disconnect the xenon bulb connector, unlock the retaining spring to remove the xenon bulb.
- Turn the halogen bulb (high beam) lamp socket counterclockwise to unlock and remove it.
- 3. Turn the front park/turn signal lamp bulb socket counterclockwise to unlock and remove it.
- Pull the front park/turn signal lamp bulb from its socket.
- 5. Turn the side marker lamp bulb socket counterclockwise to unlock and remove it.
- 6. Pull the side marker lamp bulb from its socket.

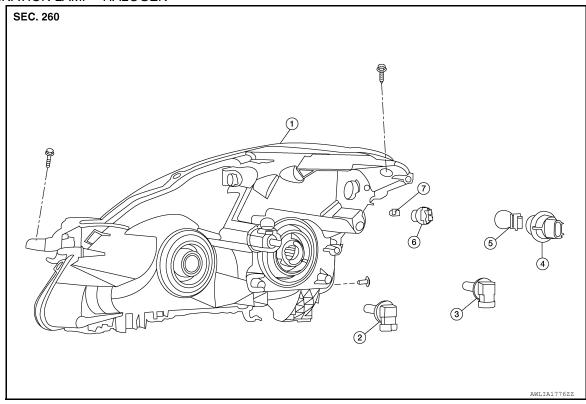
Assembly

Assembly is in the reverse order of disassembly.

CAUTION:

· After installing the xenon bulb, be sure to install plastic cover securely to ensure watertightness.

COMBINATION LAMP - HALOGEN



1. Headlamp assembly

Side marker lamp bulb

- 2. Halogen lamp bulb (high beam)
- 3. Halogen lamp bulb (low beam)

- 4. Front park/turn signal lamp bulb socket
- 5. Front park/ turn signal lamp bulb
- 6. Side marker lamp bulb socket

Disassembly

CAUTION:

- Do not touch the glass of the bulb directly by hand. Keep grease and other oily substances away from bulb. Do not touch bulb while it is lit or right after being turned off, burning may result.
- Turn the halogen lamp bulb (low beam) counterclockwise to unlock and remove it.
- Turn the halogen lamp bulb (high beam) socket counterclockwise to unlock and remove it.
- 3. Turn the front park/turn signal lamp bulb socket counterclockwise to unlock and remove it.
- 4. Pull the front park/turn signal lamp bulb from its socket.
- 5. Turn the side marker lamp bulb socket counterclockwise to unlock and remove it.
- 6. Pull the side marker lamp bulb from its socket.

Assembly

Assembly is in the reverse order of disassembly.

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FRONT FOG LAMP

Bulb Replacement

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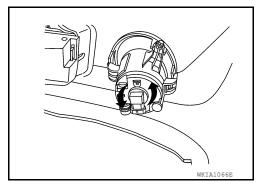
Removal

The fog lamp is a semi-sealed beam type which uses a replaceable halogen bulb.

WARNING:

Do not touch bulb by hand while it is lit or right after being turned off. Burning may result. CAUTION:

- Do not touch the glass of bulb directly by hand. Keep grease and other oily substances away from it.
- Do not leave bulb out of fog lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of fog lamp. When replacing bulb, be sure to replace it with new one.
- 1. Position the fender protector aside. Refer to <u>EXT-46</u>, "Removal and Installation" (sedan) or <u>EXT-46</u>, "Removal and Installation" (coupe).
- 2. Disconnect the fog lamp connector.
- 3. Turn the fog lamp bulb counterclockwise to remove it.



Installation

Installation is in the reverse order of removal.

Removal and Installation

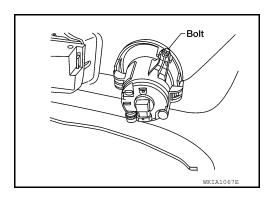
INFOID:0000000006390382

REMOVAL

The fog lamp is a semi-sealed beam type which uses a replaceable halogen bulb.

CAUTION:

- Do not leave fog lamp assembly without bulb for a long period of time. Dust, moisture, smoke, etc. entering the fog lamp body may affect the performance. Remove the bulb from the headlamp assembly just before replacement bulb is installed.
- Grasp only the plastic base when handling the bulb. Never touch the glass envelope. Touching the glass could significantly affect the bulb life and/or fog lamp performance.
- Position the fender protector aside. Refer to <u>EXT-46</u>, "Removal and Installation" (sedan) or <u>EXT-46</u>, "Removal and Installation" (coupe).
- 2. Disconnect the fog lamp connector.
- 3. Remove bolt from top of fog lamp.
- 4. Remove fog lamp.



INSTALLATION

Installation is in the reverse order of removal.

Check fog lamp aiming adjustment. Refer to EXL-206, "Aiming Adjustment".

SIDE TURN SIGNAL LAMP

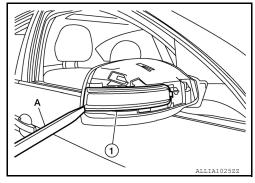
< REMOVAL AND INSTALLATION >

SIDE TURN SIGNAL LAMP

Removal and Installation

REMOVAL

- 1. Remove the door mirror cover. Refer to MIR-23, "Disassembly".
- 2. Release the side turn signal lamp (1) from the door mirror at the outer edge using a suitable tool (A).



3. Disconnect the side turn signal lamp connector and remove the side turn signal lamp.

INSTALLATION

Installation is in the reverse order of removal.

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Revision: June 2012 EXL-211 2011 Altima GCC

STOP LAMP

Bulb Replacement

INFOID:0000000006390383

HIGH-MOUNTED STOP LAMP - WITH REAR SPOILER

Removal

The high-mounted stop lamp uses an LED circuit board instead of a bulb. The LED circuit board is not serviceable and the high-mounted stop lamp must be replaced as an assembly.

HIGH MOUNTED STOP LAMP - WITH PARCEL SHELF

Removal

- Remove high mounted stop lamp assembly from parcel shelf.
- 2. Turn bulb socket counterclockwise to unlock it.
- 3. Remove high mounted stop lamp bulb from the socket.

Installation

Installation is in the reverse order of removal.

Removal and Installation

INFOID:0000000006390384

HIGH-MOUNTED STOP LAMP - WITH REAR SPOILER

Removal

- Remove the rear spoiler. Refer to <u>EXT-53</u>, "Removal and Installation".
- 2. Remove the two screws and remove the high-mounted LED stop lamp from the rear spoiler.

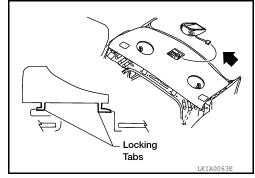
Installation

Installation is in the reverse order of removal.

HIGH-MOUNTED STOP LAMP - WITH PARCEL SHELF

Removal

- Slide high-mounted stop lamp assembly rearward on parcel shelf to give clearance to front tabs.
- 2. Lift front of lamp assembly up and bring forward to give clearance to rear tabs.
- 3. Disconnect the high-mounted connector and remove.



Installation

Installation is in the reverse order of removal.

LICENSE PLATE LAMP

< REMOVAL AND INSTALLATION >

LICENSE PLATE LAMP

Bulb Replacement

INFOID:0000000006390385

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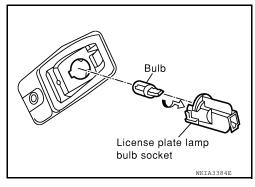
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REMOVAL

- 1. Position trunk lid finisher aside.
- 2. Turn license plate lamp bulb socket counterclockwise to unlock and remove.
- 3. Pull license plate lamp bulb to remove from socket.



INSTALLATION

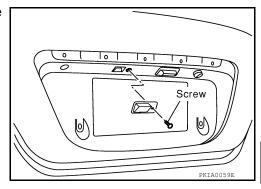
Installation is in the reverse order of removal.

Removal and Installation

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REMOVAL

- 1. Remove the license lamp finisher. Refer to <u>EXT-26</u>, "Removal and Installation" (coupe), or <u>EXT-52</u>, "Removal and Installation" (sedan).
- 2. Disconnect the license plate lamp connector.
- 3. Remove the license plate lamp screw and remove the license plate lamp.



INSTALLATION

Installation is in the reverse order of removal.

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Revision: June 2012 EXL-213 2011 Altima GCC

REAR COMBINATION LAMP

< REMOVAL AND INSTALLATION >

REAR COMBINATION LAMP

Bulb Replacement

INFOID:0000000006390387

REAR TURN SIGNAL LAMP

Removal

- 1. Remove the rear combination lamp. Refer to EXL-214, "Removal and Installation".
- Turn the rear turn signal lamp bulb socket counterclockwise and remove it.
- 3. Remove the rear turn signal lamp bulb.

Installation

Installation is in the reverse order of removal.

STOP/TAIL LAMP

Removal

- Remove the rear combination lamp. Refer to <u>EXL-214, "Removal and Installation"</u>.
- 2. Turn the stop/tail lamp bulb socket counterclockwise and remove it.
- 3. Remove the stop/tail lamp bulb.

Installation

Installation is in the reverse order of removal.

BACK-UP LAMP

Removal

- Remove the rear combination lamp. Refer to EXL-214, "Removal and Installation".
- 2. Turn the back-up lamp bulb socket counterclockwise and remove it.
- 3. Remove the back-up lamp bulb.

Installation

Installation is in the reverse order of removal.

SIDE MARKER LAMP

Removal

- 1. Remove the rear combination lamp. Refer to EXL-214, "Removal and Installation".
- 2. Turn the side marker lamp bulb socket counterclockwise and remove it.
- 3. Remove the side marker lamp bulb.

Installation

Installation is in the reverse order of removal.

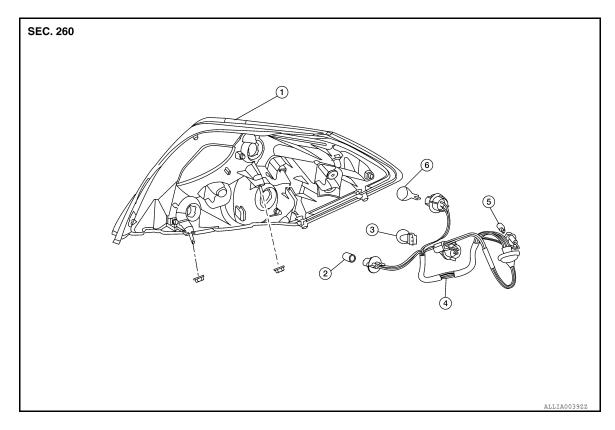
Removal and Installation

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COMPONENTS

REAR COMBINATION LAMP

< REMOVAL AND INSTALLATION >



- 1. Rear combination lamp
- 4. Rear combination lamp harness
- 2. Back-up lamp bulb
- 5. Side marker lamp bulb
- 3. Stop/Tail lamp bulb
- 6. Rear turn signal lamp bulb

REMOVAL

- 1. Remove trunk rear finisher. Refer to INT-53, "Exploded View" (coupe) or INT-30, "Exploded View" (sedan).
- 2. Partially remove trunk side finisher. Refer to INT-31, "Removal and Installation".
- 3. Remove the rear combination lamp nuts.
- 4. Pull the rear combination lamp assembly toward rear of the vehicle.
- 5. Remove the bulb sockets and rear combination lamp harness from the rear combination lamp

INSTALLATION

Installation is in the reverse order of removal.

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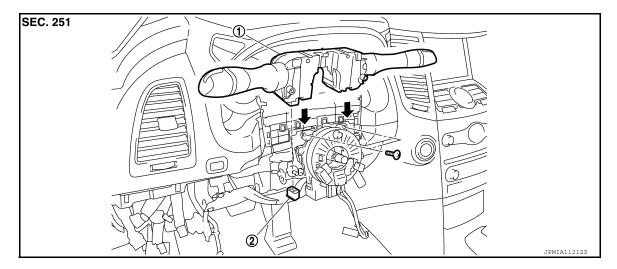
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LIGHTING AND TURN SIGNAL SWITCH

Removal and Installation

INFOID:0000000006390389



1. Combination switch

2. Combination switch connector

NOTE:

- Shown with steering wheel removed for clarity only.
- The lighting and turn signal switch are part of the combination switch assembly.

REMOVAL

- Unlock steering wheel.
- Disconnect negative and positive battery terminals and wait at least three minutes.

CAUTION:

- Before servicing, disconnect both battery terminals and wait at least three minutes.
- Do not use air tools or electric tools for servicing.
- After the work is completed, make sure no system malfunction is detected by air bag warning lamp.
- In case a malfunction is detected by the air bag warning lamp, reset with the self-diagnosis function and delete the memory with CONSULT.
- If a malfunction is still detected after the above operation, perform self-diagnosis to repair malfunctions. Refer to <u>SRC-12</u>, "<u>SRS Operation Check"</u>.
- 3. Remove steering column covers. Refer to IP-13, "Removal and Installation Steering Column Covers".
- 4. Rotate steering wheel clockwise to access first combination switch bolt, then remove the bolt.
- 5. Rotate steering wheel counter-clockwise to access second combination switch bolt, then remove the bolt.
- 6. Disconnect connectors, then remove the combination switch.

INSTALLATION

Installation is in the reverse order of removal.

HAZARD SWITCH

< REMOVAL AND INSTALLATION >

HAZARD SWITCH

Removal and Installation

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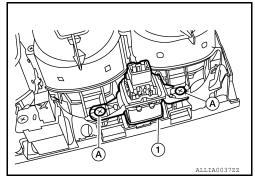
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Removal

- 1. Remove the center ventilator grilles. Refer to IP-11, "Exploded View".
- 2. Disconnect the passanger air bag and hazard switch connectors.
- 3. Remove the hazard switch screws (A) and remove the hazard switch. (1).



Installation

Installation is in the reverse order of removal.

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OPTICAL SENSOR

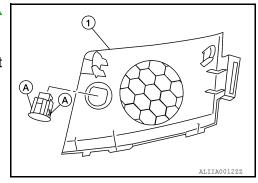
< REMOVAL AND INSTALLATION >

OPTICAL SENSOR

Removal and Installation

REMOVAL

- 1. Remove the front RH speaker grille (1). Refer to <u>AV-52.</u> "Removal and Installation".
- 2. Disconnect the optical sensor electrical connector.
- 3. Release the optical sensor tabs (A) to remove it from the front RH speaker grille (1).



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INSTALLATION

Installation is in the reverse order of removal.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Headlamp

Item	Wattage (W)*
Low (halogen)	55
Low (xenon) if equipped	35
High	65

^{*:} Always check with the Parts Department for the latest parts information.

Exterior Lamp

Item		Wattage (W)*	
	Park/turn signal lamp	27/8	
Front combination lamp	Park lamp	5	
	Side marker lamp	5	
Side turn signal lamp		LED	
Rear combination lamp	Stop/Tail lamp	27/8	
	Turn signal lamp	27	
	Back-up lamp	8	
	Side marker lamp	5	
License plate lamp		5	
High-mounted stop lamp (parcel shelf mount)		18	
High-mounted stop lamp (rear air spoiler mount)		LED	

^{*:} Always check with the Parts Department for the latest parts information.

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Revision: June 2012 EXL-219 2011 Altima GCC